

# Manufacturers Record

Reg. U. S. Pat. Office

EXPONENT OF AMERICA

Devoted to the Upbuilding of the Nation Through the Development  
of the South and Southwest as the Nation's Greatest Material Asset

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## Linking Two Great Engineer Presidents in Waterway Improvements

OUR first and greatest president, George Washington, was the only engineer president this country ever had until Herbert Hoover, another great engineer, became president. When Hoover was nominated the MANUFACTURERS RECORD referred to the fact that the first president of the United States was an engineer and it seemed that the time had come when we should elect another great engineer who, with a national, or indeed, with a worldwide, vision could see the engineering problems which faced this country and the solving of which would bring about empire building on a scale such as we have never known before.

Ever since George Washington visualized the possibility of the Ohio and saw what its improvement might do, we have potted along year after year and generation after generation, spending a few dollars here and there in improving the Ohio and the Monongahela and other rivers, instead of throwing into this work an amount of money that would have justified carrying forward all of these improvements with a rapidity which would have marked the work of any great outstanding manufacturing firm of this country. As a nation we have been slow in doing the work that was necessary, while as individuals our great business concerns and contractors have moved with a celerity which is a marvel of the world.

The celebration of the opening of the Ohio River for all-the-year-round transportation, in which President Hoover took a leading part, gave him an opportunity to outline some of the broad river and harbor work which, as an engineer, he has realized must be done if this country would fully utilize the opportunities which nature has given us. What boots it if we do undertake to spend a billion dollars in the next five years, or \$200,000,000 a year, on these river and harbor improvements when their completion will yield to us an annual profit greater than their entire cost and when this country, with its vast wealth, should begin a campaign for river and harbor work that will put to shame all of the picayunish ways of the past? Our Army engineers have here and there done great things, but they have been hampered by red tape, by the lack of money and by doing piecemeal work year after year instead of having one big plan laid out and the money available for carrying it forward as rapidly as the biggest contractors in America could do. Even Mr. Hoover's broad survey of the situation, as indicated in his Louisville speech, does not begin to cover all of the things this country must do if we are fully to utilize our water advantages.

The time must come, and it should come in the very near

future, when a ship canal across Florida will be built by the Federal government in the interest of commerce. Its influence would be so great upon the trade of the entire country that it would be difficult to measure its value in dollars and cents. From Texas ports millions of barrels of oil are being constantly shipped in ocean tankers of enormous size to Baltimore and other eastern ports and they must bear the cost of the time lost in going around Florida instead of going straight across the state. Shipments from the East to the South, and to the other parts of the world, could be made with equal advantage if such a canal as we have indicated should be constructed. A barge canal here and there is desirable. It is extremely important, for instance, that the barge canal down the east coast of Florida, for which the government has appropriated the money, should be constructed as promptly as possible.

The deepening of many of our rivers to nine feet at low water for barge transportation, such, for instance, as has been done on the Monongahela and Ohio rivers, enabling the shippers along these rivers to send out great fleets of barges, is a work of supreme importance, but here and there still greater and deeper waterways must be provided. The time may come when we shall of necessity cut across some of the central Southern states with at least a barge canal of considerable depth which would lessen the danger of overflow on the Mississippi river and open up great possibilities for the enlargement of business interests.

The tributaries of the Mississippi must be utilized to the utmost extent, not only for transportation but for the development of electric power by vast inland reservoirs, giving the double value of safety from the overflow of the river and at the same time the advantage of great hydro-electric operations.

We must also build the Nicaraguan Canal, and the country should be prepared in advance of the report of the engineers who are now in the field to recognize that the building of a canal across Nicaragua will be of equal value to the construction of the Panama Canal, and that this country cannot afford from any point of view whatever to depend simply upon one canal.

We are inclined to forget the vast area, the boundless resources and marvelous progress of the United States, all of which unite to demand a broader vision of the things to be done in the way of waterway improvements than any one has yet visualized, unless perchance President Hoover, with his world knowledge and with his engineering vision. Perhaps he is able mentally to grasp something of the magnitude of the enterprises upon which we must enter. Possibly it was wise for him in his Louisville speech to

specify only a few of the more important things to be done at an expenditure of a billion dollars, but we are quite sure that as President Hoover studies the whole situation he will see that that is just the beginning of a gigantic movement which must reshape the destiny of this country, enormously increase employment and prosperity and increase transportation facilities in keeping with its vast resources, making every drop of water which now runs idly to the sea add by full utilization to the prosperity of the entire country.

### SOUTH CAROLINA TAKES GREAT FORWARD STEP IN DEVELOPING STATE HIGHWAY SYSTEM

THE Supreme Court of South Carolina has upheld the validity of a \$65,000,000 highway bond issue passed by the last session of the Legislature. It is now planned to complete South Carolina's primary state highway system in a four-year period. In the interest of South Carolina's progress it is hoped that opponents of the bond plan will accept the decision of the State Court and permit prompt inauguration of a highway finance and construction program that has been so successfully utilized in developing state road systems in many other states; and perhaps in no state have the material and social blessings and general influences for upbuilding and development been demonstrated in greater measure than in its sister state, North Carolina.

The act now declared constitutional provides that the state may issue not more than \$20,000,000 in road bonds in a single year. The gasoline tax is increased to six cents, one cent to go direct to the counties for supplementary roads and the remainder to provide for the interest and sinking fund on the highway bonds.

It is inevitable that but a few years' operation of the new plan will convert to the bond plan idea of highway finance many South Carolinians who now earnestly but mistakenly believe that the "Pay-As-You-Go" plan is a sound principle in the initial development of a satisfactory, connected, year-round, statewide system of highways. The influence for stimulating general development of the state's possibilities as a result of spending millions of dollars in widely scattered sections cannot be overestimated. Activities in connection with the comprehensive program and the consequent expenditure of big sums for materials, labor, machinery and supplies, will create a contagious spirit of prosperity and optimism.

The court's decision and the announcement of plans by the State Highway Commission to go forward with construction in volume early next year will be of special interest to Georgians, who saw a state highway bond issue proposal defeated in the last Legislature largely because such a bond issue "would constitute a mortgage on generations unborn." A bond issue for highways paid for by a gasoline tax is in reality not a state liability. Moreover, it makes possible the provision in a comparatively short time of facilities for motor transport that will marvelously stimulate the development of an entire state, politically, educationally, spiritually, and will attract to the state untold thousands of automobile tourists who heretofore have avoided it because of lack of proper roads. With the program under way, South Carolina should share bountifully in the manifold blessings that have come to states that have provided extensive mileages of pavements comprising a unified highway system. The state is assured of good roads without resorting to bonds issued against direct taxation, and the necessary funds for construction and maintenance will be forthcoming willingly by the painless method of road tolls—or the gasoline tax—assessed only against the operators of motor vehicles. And hard

surfaced highways, by reducing operating and maintenance charges, really cost the operator of motor vehicles nothing. It is not too much to say that high-type pavements virtually pay for themselves in the saving of time and money.

South Carolina is to be commended for its progressive spirit and recognized for its economic wisdom in casting aside an antiquated, unsatisfactory method of highway finance. If the program as presently outlined proceeds according to schedule, South Carolinians will soon have abundant evidence that hard surface highways cost property owners not one cent and will decrease rather than increase the cost of operating motor vehicles. Other states that hesitate to accept the bond plan will critically watch developments in South Carolina. For the sake of the general expansion of the South it is to be hoped that these sister states may see the light and quickly adopt the bond plan of financing primary state highway systems.

### PROTECTION NEEDED ON PIG IRON

A LARGE number of manufacturers of pig iron for the open market in New York, Pennsylvania, Massachusetts, Virginia, Tennessee and Alabama, referring to the effort to put a sufficient duty on pig iron, have called attention to the fact that earnings of the great steel corporations have no significance whatever as indicative of profits from the production of pig iron. These corporations manufacture pig iron for their own use, carrying it generally direct from the molten stage into the steel plant.

The brief prepared by these pig iron manufacturers who produce iron for the open market—an absolute necessity to the foundry interests of the country—makes the following important statements:

"Thirty-two merchant blast furnaces, not connected with steel works, and engaged solely in the manufacture and sale of pig iron, with investments of approximately \$60,000,000, showed for 1926-1927-1928 losses of \$5,078,839.

"The lack of an adequate protective duty on 'iron in pigs' will inevitably drive the independent manufacturers out of business. The domestic purchaser of this commodity will then be in the position of being dependent for his raw material, either on the large steel corporations who frequently (especially at times of brisk demand for steel) have no iron for sale; or, on the foreign market."

### YEAR ROUND BUILDING

REFERRING to the country as a whole, the Portland Cement Association calls attention to the fact that the three winter months, December, January and February, are very nearly unused by prospective builders. Perhaps the construction industry is itself partly to blame, but there does exist a popular myth that winter building is neither practicable nor profitable. Hence, the construction business is forced to mark time during a quarter of the year. As it suffers, every other phase of industry suffers, for the building industry is basic. Prosperity and construction are complementary.

Fortunately, the South with its mild climate has learned the value of building the year round. It is not hampered in its construction operations by long continued freezing weather which grips the North and West. The public is not yet realizing upon this advantage as it should and Southern builders and construction material manufacturers and distributors generally would do well to emphasize the South's opportunities for carrying on winter building operations. In the last few years, however, much progress has been made and Southern people have been taking advantage of reduced building costs at what was formerly regarded as the "slack period" in construction work.



### THE LAMBS HAVE BEEN SHORN

**R**EPEATEDLY during the wild gambling boom which swept over the country, centered in Wall Street, the MANUFACTURERS RECORD warned its readers of an inevitable collapse sooner or later. Time and time again we have been told by supposed political economists that our position was wrong, that the country had entered upon an entirely new era in finance and that the high prices prevailing for the securities of great companies were fully justified. But when stocks have in many cases been selling at 20 to 30 times their value, based on their dividends or their earnings, it would seem to the veriest tyro in finance that something was the matter.

It is entirely probable that the great financial interests centered in New York have not lost anything by the heavy decline in stock prices recently, for it has long been the practice—at least of those who were longheaded and most of them are, in looking after their own interests—to sell securities, when the public is scrambling for them at high prices, and buy them back again when the public is running wild to see how rapidly it can get rid of securities on a declining market. Some of these securities are doubtless intrinsically worth the prices at which they have been selling, measured by their possibilities, but the evident propaganda which has been carried on throughout the country to induce the general public to pay money for many securities on their alleged intrinsic value will eventually react, for once the public becomes thoroughly awakened to what has been going on it may take some little time for the sucker list to be freshened up by a new generation. But it is an old saying that a new sucker is born every day.

Billions of dollars have been lost, mostly by people who could not afford to lose; millions of people have been drawn into this vortex of speculative gambling to the neglect of their own business, hoping and expecting to win a fortune over night. The real estate speculative booms in the West 40 years ago and in various parts of the South about the same time, created largely by the sharp land operators who, seeing the gradual collapse of the Western real estate boom, turned their attention to the South, and the land boom in Florida a few years ago were all only a chill as compared with the fever of speculation which centered around Wall Street.

Today, millions of people are mourning the loss of their imaginary paper profits while others are mourning the loss of real money which they had put up for margin. It will not be long, however, before the big financial powers that sold out before the collapse came, having sheared the lambs down to the very skin and bones, will begin a new campaign and say that the tide has once more turned, that stocks are cheap and the public should buy, and when the public has begun to buy freely and stocks have gone kiting skyward they will sell out again, following the practice that has long prevailed among many great financial interests.

It is useless to disguise this situation; it is useless to make light of it; it is useless for the financial powers guilty of such things not to realize that they are treading on dangerous ground and that all of their heaped up wealth may some day prove a curse rather than a blessing to them.

This speculative mania has in many respects retarded business. The high rates of call money kept municipalities from selling securities at a fair price, and thus delayed the building of waterworks and sewerage systems and carrying out other much needed improvements. This has had a serious effect on a great many lines of industry, especially on pig iron and iron pipe and kindred interests. If the Wall Street collapse results in breaking down the exorbitant price of

money and brings about a lower rate of interest, it may help to stimulate the industrial activities of the country.

Had the Federal Reserve Board acted wisely in the beginning of this campaign it would have held discount rates at a low figure, in order to prevent the flood of money from all parts of the country seeking the New York market for the high rates of interest that were being paid, but the Federal Reserve Board did not have either the financial judgment nor the backbone to do the wise thing. Now when the damage has been done, possibly it may reduce discount rates and try to make the public believe in the wisdom of its management, but we think the public is beginning to understand something of the lack of wisdom and the lack of financial acumen on the part of those who dominate the Federal Reserve Board.

Johnny had a friendly lamb,  
Its fleece was good as gold.  
Everywhere that Johnny went  
The lamb was there, I'm told.  
It followed him to market,  
In Wall Street, known of old.  
Now lambie has no fleece,  
For the margin, it was sold.

### DALLAS, IN ITS MARVELOUS GROWTH, IS TEACHING A LESSON TO THE WHOLE SOUTH

**B**ASED on the selection of Dallas as the headquarters in the Southwest of the Radio-Victor Corporation of America, Industrial Dallas, Inc.—the organization through which the attractions and advantages of Dallas are set forth—tells a story of some of that city's remarkable achievements. It is shown that within the territory of the Southwest regarded as tributary to Dallas there is a buying power of more than \$6,000,000,000 annually and it is to a study of the facts connected with this statement and with many others bearing on Dallas that Industrial Dallas, Inc., largely credits the development of the city as a result of "Industrial Dallas advertising." In the statement is given a list of the papers in which Dallas has been carrying its advertisements, including the MANUFACTURERS RECORD as the outstanding paper of the country in making known the advantages of this section to the world.

Attributing the remarkable growth of Dallas to the results of its advertising campaign, the statement gives some interesting facts showing that, in 1927, 364 new business enterprises were established in Dallas; that in May, 1928, the national advertising campaign was inaugurated and, in 1928, 904 new business enterprises were established in the city, or nearly twice as many as in the preceding year and that, based on the first nine months of 1929, there will be about \$20 new business interests established in Dallas during the present year. Carried in striking type on the back of the printed statement is the following:

"On the Back  
Is the  
Proof  
of the  
Results  
This Advertising  
Campaign is  
Achieving for  
DALLAS."

Julian Capers, Jr., publicity director of Industrial Dallas, Inc., in an interesting article in "Western Advertising and Western Business," referring to some of the reasons why

previous advertising efforts had not been successful in Dallas and elsewhere, said:

"Analysis of these ill-fated campaigns indicated that the basic faults leading to failure from internal causes could be summarized under the following heads:

"1. A lack of complete understanding on the part of the people of the community, and particularly the subscribers, of some of the fundamentals of advertising.

"2. A lack of comprehensive advertising plan, based upon careful study by experts, instead of upon the theories or guesses of those directing the project.

"3. A lack of complete information at all times concerning the progress being made and the activities under way.

"4. A lack of conservatism in forecasting results from the advertising project."

On this point Mr. Capers added:

"Examination of these four fundamental weaknesses which have affected other community campaigns led to the conclusion that the relations between the community that is being advertised and the advertising organization were almost as important to the ultimate success of the project as was the campaign itself. \* \* \* There were 780 subscribers to the \$500,000 advertising fund, pledged through public speeches to selected civic groups and other conventional contact methods.

"As a result there is hardly a man, woman or child in Dallas who is not perfectly familiar with the progress which the campaign has made from month to month.

"During the first year, 98.5 per cent of the total sum pledged was collected, the 1.5 per cent lapsation being due to pledges which were cancelled by reason of business failures, mergers, deaths and all other causes.

"The people of Dallas were not made to expect the coming of huge factories immediately after the first advertising appeared. They had been educated to know that factories aren't moved about the country in that way. They did know that industry feels its way carefully, by sending into a new territory a single traveling salesman, or perhaps establishes a small branch house, or a warehouse, or a distributing branch, or in some cases an assembly plant or a small branch factory.

"The people of Dallas were taught to realize that if 100 branches of national concerns come to Dallas in a year, employing an average of, say, five people each, the city would be far better off than with a single factory employing 500 people."

Mr. Capers referred to the fact that Dallas has been particularly fortunate in having a board of directors and a roster of officers who have had the courage to adhere inflexibly to the plan outlined before the advertising started. Innumerable suggestions, both from subscribers and non-subscribers have been made. The usual number of friends of publications which were left off the schedule, and of enemies of those which were put on, have appeared from time to time with requests and demands that their ideas be adopted. The association has been offered every sort of opportunity, from electric signs to welcome new industries to the town to buying space in convention programs and backing non-stop airplane endurance flights, but Industrial Dallas, Inc., has so far managed to confine its expenditures to the purchase of white space in recognized newspaper media of the country.

As a result of this campaign there were brought into Dallas in 1928 164 branches of nationally or regionally important concerns.

These are but a few of the telling facts presented in the statements issued by Industrial Dallas, Inc., which could be studied to much advantage by the people of the whole South.

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He only is advancing in life, whose heart is getting softer, whose blood warmer, whose brain quicker, whose spirit is entering the living peace.—Ruskin.

## A TRUE STORY OF COTTON MILL OPERATIVES

**J.** M. STONER, a grocer of Murphy, N. C., in a letter to the MANUFACTURERS RECORD commending a recent article about cotton mill operatives and cotton mill conditions of the Carolinas, said:

"I want to thank you for your unbiased, Christian presentation of the subject. I have lived in homes of the Holts and cotton mill owners in Charlotte, and among the mountain people of North Carolina in Asheville, 1894 to 1919; and here in the county of Cherokee since 1919, where one-fourth the people have gone to mill sections in this and other states.

"I am glad you have the spirit to give owners and laborers justice. I cannot do it as you do, but when the Gastonia strike was on, a number of the operatives came home here who were not members of the union and did not strike. The mill owners told them they could go home and when able to open their mills without danger they would wire them to return. One of these operatives, a 19-year-old girl, told me she was getting \$20 a week, and she had never made a cent here on the farm. One of them, a man about 50 years old, said he had lived here all his life on a rented farm, and three years ago went to Gastonia; now he has come back with \$1400 made in the cotton mills and has bought a nice little farm he never could have had without work in the mills. A third man, a cripple, could not work on a farm, so he, his wife and two grown sons, went to a cotton mill. The company gave him a light job at \$15.80 a week, and his sons were drawing on piece work \$20 to \$30 per week, and averaging \$25. I am giving these facts to bear you out in what you said about wages."

Similar cases to the extent of many thousands could be given from the experience of those who have had close touch with the cotton mill operatives of the South. The writer's experience goes back for more than 40 years in a personal acquaintanceship with the mountain people of the Carolinas, and with the work in the cotton mills. From these mountain people have come many of the distinguished ministers of the country, and perhaps the greatest living Baptist minister in America is a product of one of the little mountain homes. Many others of high standing and tremendous influence have come out of these mountains; lawyers, doctors, missionaries and bankers to the extent of thousands in the South; but not until they moved away from the mountain homes did they have the opportunity to develop into the great men that they became.

There are limitless possibilities in these people; they manifest a hospitality of the highest degree, as the writer knows from having mingled with them personally in many a horse-back ride and hunting trip years ago. At the same time they have some bad ones among them, as there are bad people everywhere else. These folks lacked the opportunity for work; there was a chance for making only a bare existence on the mountainside farms. But as they have gone down into the cotton mills they have developed steadily, step by step, becoming more and more efficient, and moving gradually to a higher plane of comfort and convenience, and accumulating more than they ever could have made in the mountains.

We do not for a moment attempt to say that every mill in the South is as attentive to its operatives as it might be; but we do say that a great majority of mill managers are thoroughly imbued with the desire to do all in their power for the betterment of their operatives, and that a service of inestimable value has been rendered in the building of mill villages, where employees can have better homes and other advantages and at a lower cost than they could possibly secure in adjacent towns or cities.

The most thoroughly maligned, misrepresented people on the face of the earth are probably the mill owners of the South, and next to them come the mill operatives, who are regarded by many who do not know them as the lowest class of enslaved workers.



## Economic Interests of People Should Not Be Sacrificed Upon Altar of Party Expediency

*In reply to a request by the MANUFACTURERS RECORD for a statement outlining his views on the critical situation which has developed in Washington on the tariff, John H. Kirby, of Houston, Texas, who has not only been one of the great developers of the South but has always been a strong Democrat, wires the following:*

"At no time in our history has the South stood in greater need of customs duties to enable our producers to compete in the home market with their foreign rivals. This is especially true of the products of farm and ranch, which two industries are out of step with the other industries of America and which two industries will be rendered hopeless unless adequate tariff duties are imposed. Cotton seed, peanuts, eggs and poultry, long staple cotton, wool, mohair, fruits and vegetables, meats and hides, sugar and rice impera-

tively demand this assistance in their competition with similar products from other lands. Present rates are not sufficient to give the farmers and stock-raisers a fair show as citizens and toilers. Adequate duties will make these industries prosper and their prosperity will diffuse itself throughout every other line of effort because of the purchasing power arising under improved conditions.

"Southern congressmen will disappoint our hopes if they do not cooperate in securing for all Southern industries the reasonable encouragement which an adequate tariff will provide and which encouragement cannot be secured through any other form of legislation.

"It is absurd to expect that America can, under present economic conditions prevailing throughout the world, create commodities at as low cost as they are being created and will continue to be

created in other lands. To maintain our standard of wage and our standard of living we must impose duties on foreign commodities that will enable our own producers to compete at a profit in our home markets. Entirely aside from this national interest and national requirement, it is of the highest consequence to the people of the South that their industries be accorded equality of opportunity and that tariff legislation should not discriminate against any commodity or any section of the country. Any Southern representative in either branch of the Congress of the United States who ignores this plain duty to his people will be a grievous disappointment to us. The tariff is a purely economic question and should not be made the football of partisan politics. The economic interests of all of our people should not be sacrificed upon the altar of party expediency."

## Tariff Not Creator of High Prices

By GEO. W. ARMSTRONG, President, Texas Steel Co., Fort Worth, and Owner of Twenty-three Plantations in Mississippi.

IT must be conceded that the tariff will not of itself put up the price of agricultural products, or for that matter of manufactured products. The tariff simply protects the domestic producer, whether of agricultural or manufactured products, against the lower price level of importing countries, but it does not in itself raise the general price level of this country or the price of any product. Assuming protection, the general price level is determined by the volume of money and credit in circulation, modified slightly by demand and competition.

The tariff therefore will not of itself create high prices or afford relief to agriculture. If the present volume of money and credit should be doubled it would be quickly followed by a corresponding increase in prices and wages provided we had a protective tariff that would protect against the price and wage level of other countries; but if this volume should be reduced 5 per cent there would soon be a corresponding reduction in the price and wage level in spite of tariff protection.

This is the quantitative theory of money, which has been thoroughly tested and proven to be true by the experience since the world war of every country of the world including our own country. This theory was first advanced by Adam Smith in his "Wealth of Nations" and later accepted and supported by John Stuart Mill and David Ricardo in their logical and admirable works. It is no longer debatable; it is admittedly true by all economists.

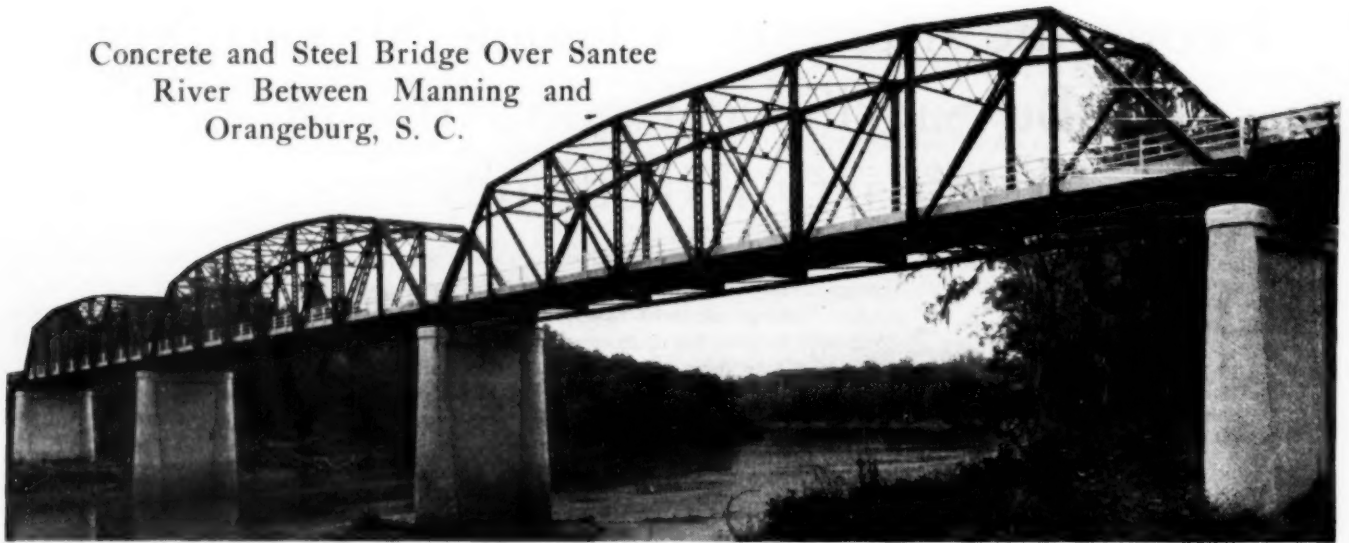
The tariff will help the farmer as well as the manufacturer, but it will not afford relief to either of them; the debenture plan will help the farmer still more but it will not give him relief; the Federal Farm Board may help some, provided the majority of the farmers can be organized into cooperative societies, which is doubtful. But nothing will afford the farmer relief that falls short of increasing the prices of his products and his property, and that can only be accomplished by an increase in the volume of money and credit together with tariff protection.

There was no farm distress or farm relief problem prior to the deflation

program of the Federal Reserve management and of the national government in 1920. Admittedly a mistake and condemned by both political parties and everybody else, it has never been corrected. On the contrary the prestige and power of the Federal Reserve System of the government has been successfully employed to deflate the prices of other countries, and is now being employed, with its attendant orgy of usury, to deflate the stock market.

The process of deflation, by which the farm problem was created, must be reversed before there can be any farm relief. It cannot be brought about on the basis of deflated values. Create high prices by any process you please and the farm problem will be solved, but without them it will never be. There must be an inflation of the value of property with its corresponding deflation in the value of money—a situation horrible in the sight of money lenders, newspaper economists, college professors, and Democratic politicians—before there can be any prosperity to the farmer or anybody else, except a few members of the classes just mentioned.

Concrete and Steel Bridge Over Santee  
River Between Manning and  
Orangeburg, S. C.



## \$65,000,000 Bonds Assure Completion of South Carolina Primary State Highway System

Road Bond Issue Approved by Court Decision—Preliminary Plans Call for Annual Building of 500 Miles of Pavement, Extending Earth-Type Roads and Constructing Numerous Bridges Over a Four-Year Period

SIXTY-FIVE million dollars for extending its state highway system is an expression of the measure of confidence that the South Carolina General Assembly has in the advantages to be gained for the state through adequate motor transport facilities. That is the amount of the highway bond issue authorized at the last session of the legislative body and it represents almost 90 per cent of what the state has expended for highway improvement during the past ten years. On October 12, approval of the state's proposed bond issue was announced by a court composed of all the circuit court judges convened as a court "en banc," thus concluding possible litigation in the state courts. A legal decision on the bond issue was necessary because the State Constitution prohibits any increase in bonded indebtedness without submitting the question to a statewide vote, which was not done. The courts interpreted the constitutional provision as applying to bonds issued against direct taxation only. The road bonds are to be paid off through special taxation, which means five cents of the present six-cent gasoline tax and the automobile license tax. Of the gasoline tax one cent will go direct to the county.

The highway department of South Carolina is only about 12 years old, but nobody connected with it or even remotely interested in its work at the beginning had the slightest idea of the rapid rate at which this work would develop. From

By  
C. E. JONES

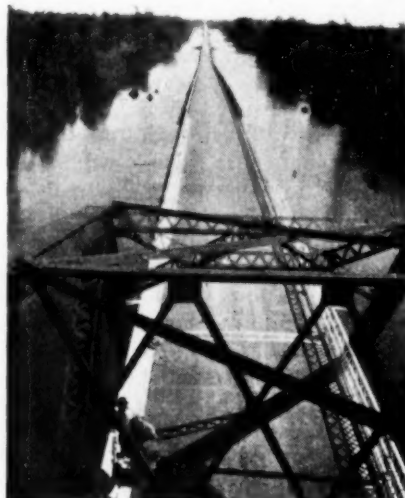
Chairman, State Highway Commission,  
Columbia, S. C.

1917, when the department was first organized, to 1924, when the so-called "Pay-As-You-Go" Act was passed, only 228 miles of a 4700-mile system had been paved and, as that act definitely implies, the legislative mind was still relying on the adequacy of improved earth-type roads to withstand the increasing motor

traffic while the paving was being extended and paid for from current highway revenues. This view, no doubt, grew out of the fact that the sand-clay and top-soil roads then recently provided, and which were of unusually good quality, had made automobile travel generally practicable throughout the state, and with the moderate volume of traffic then on the highways the discomforts and losses due to mud and dust had not been emphasized. Nobody yet realized that the connected highway system then existing would itself induce geometrical increases in the traffic and thus make paving imperative.

By 1926 the paved mileage had increased under the operation of the "Pay-As-You-Go" Act by less than 150 miles, while the improved earth-type system had been extended by about 1,000 miles, so that the completed system of improved roads embraced more than 4,000 miles—a fairly extensive state highway system for a state the size of South Carolina, and certainly sufficient to bring about traffic development entirely beyond the limitations of the road surfacing.

The General Assembly of 1926 recognized the need for accelerating the paving program and extended the provisions of the "Pay-As-You-Go" Act so as to permit any county or group of counties to anticipate the revenue of the department by floating bonds against reimbursement agreements, and advancing the proceeds to the department for use in constructing any specified part of the



Bridge Over the Great Pee Dee, Showing  
River at Flood Stage



system. This reimbursement plan was approved by the court in the fall of 1926, and from that time to the passage of the State Bond Act in March 1929, the counties and road districts had advanced or agreed to advance approximately \$40,000,000, and the completed pavement had been extended to a total of 1,250 miles of standard type with about 300 additional miles of all-weather bituminous surfacing and some 250 miles more of standard pavement provided for. It had already become fully apparent, however, that the reimbursement plan could not be counted on to provide a connected statewide system of paved roads. Counties and districts were willing to pay interest on bonds for financing the construction of paved roads that were of immediate and direct benefit to the community paying the bills, but the local interest quite naturally, and not in-



Concrete Road on Coastal Highway in Northeastern Section

ing the construction of the state highway system is equitable that does not distribute the burden over the entire state and at the same time take into account future service that the system is expected to afford.

The logic of state highway finance is, of course, in no way strange to those

been multiplying and extending into all parts of the state. The example of these corporate enterprises, perhaps, no less than the urgency of the highway needs, has been responsible for the change in legislative attitude toward the matter of accepting the state highway burden for the state and at the same time capitalizing service value over a period of years.

We are unquestionably losing some of the old charm that attached to the individualism of representative South Carolina citizens, but there are compensations.

The state highway department is already well advanced with the work of making surveys and preparing plans for carrying on the construction program, which, according to present plans, will be completed in about four years. The Commission hopes to get the construction actually under way early in 1930. It is proposed to construct more than 500 miles of pavement annually, in addition to extending the earth-type system and carrying on a sizable volume of bridge construction. It is also anticipated that funds will be available from the bond issue for placing all-weather bituminous surfacing on several hundred miles of the roads not included for standard pavement.

If the aims of the Commission are realized, the state will have completed not later than the end of 1934 a 6,000-mile highway system, of which about 3,500 miles will be paved and not less than 1,000 miles of the remainder provided with all-weather surfacing.



Asphaltic Concrete in Northeastern Section of State

frequently, failed to coincide fully with the statewide interest.

The legislative mind of South Carolina now accepts the inevitable conclusion that any thorough student of state highways financing must reach. In a nutshell, this conclusion is that the financial burden must be coextensive with the service to be provided. This means that not only must the same measure of unity apply to the financial plan as applies to the system of roads to be financed but the succeeding years of service anticipated make it necessary also to anticipate in the financial plan the service revenues to be derived during those years. In other words, no plan of financ-

who are familiar with corporate developments, but in South Carolina the people have been, at least until recently, strongly inclined toward individualism. Each man has felt that his children deserve an unencumbered heritage, and he has accordingly striven to pay for his property as he acquired it. This same idea has naturally been reflected in all of the state's activities. As a result South Carolina has one of the smallest public debts of any state in the Union. On the other hand, outside capital has not failed to recognize the rich field for corporate industry and for a number of years industrial manufacturing and power producing plants have

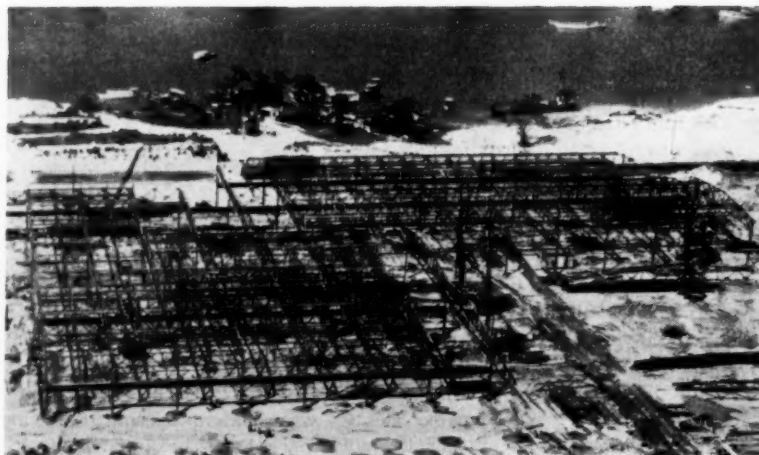


\$1,200,000 Ashley River Memorial Bridge at Charleston

# AERIAL Photography Aids Industry

By

H. N. BROWN,  
Curtiss Flying Service,  
Baltimore.



## A Progress Story by the Aerial Camera

The building of giant industrial enterprises is carefully watched by executives, stockholders, engineers and contractors, and photographs made from the air supplement and take the place of voluminous progress reports in recording developments.

**A**ERIAL photographs, often called "obliques," are being widely adopted by architects, construction engineers and building contractors to record progress on construction and building projects. These pictures frequently are supplemented by close-up ground views showing the smaller details. On large scale construction projects the aerial photograph is particularly valuable, because in a single picture it presents the whole story, whereas in ordinary photography several 8 by 10-inch pictures or a panorama photograph are necessary properly to present the same information. Aerial photography also eliminates the necessity for erecting wood or steel towers from which to take

pictures on projects covering an extensive ground area.

In an illustration accompanying this article, there is shown the steel in the cable plant being erected for the Western Electric Company at Point Breeze, Baltimore. The print was 8 by 10 inches. On the flight, numerous other views were taken of the separate construction operations in connection with the big development program. These pictures not only supplied close-up details of each particular phase of operations photographed but showed its relation to the entire property. Additional pictures made from negatives of these views were forwarded to all officials of the company directly interested in this construction.

The business of aerial photography is confined almost wholly to use by commercial enterprises, although numerous

photographs for general distribution have been taken of landscapes, cities, stretches of wilderness, parks, waterways, etc., because of their artistic settings.

Recently the city of Cumberland, Md., secured an aerial picture of Evitt's Creek Dam, just outside the city; besides being attractive scenically it had a practical use. New industries that attract additional citizens and taxpayers to a community demand an abundant supply of water for manufacturing purposes. This picture of a large area of impounded water, drawn from high in the mountains, is an assurance of a plentiful water supply for industrial purposes.

Many industrial concerns desire to show the consumer the plant behind the product, and numerous firms advertise

## New York's Rising Skyline Accurately Pictured From the Air

The aerial photograph's value in showing development of new building enterprises is strikingly demonstrated by this view of the famous city of skyscrapers





their manufacturing facilities through the use of aerial pictures on wall and pocket calendars, on blotters, letterheads, in catalogues, and through descriptive literature and in newspaper and trade-paper advertisements.

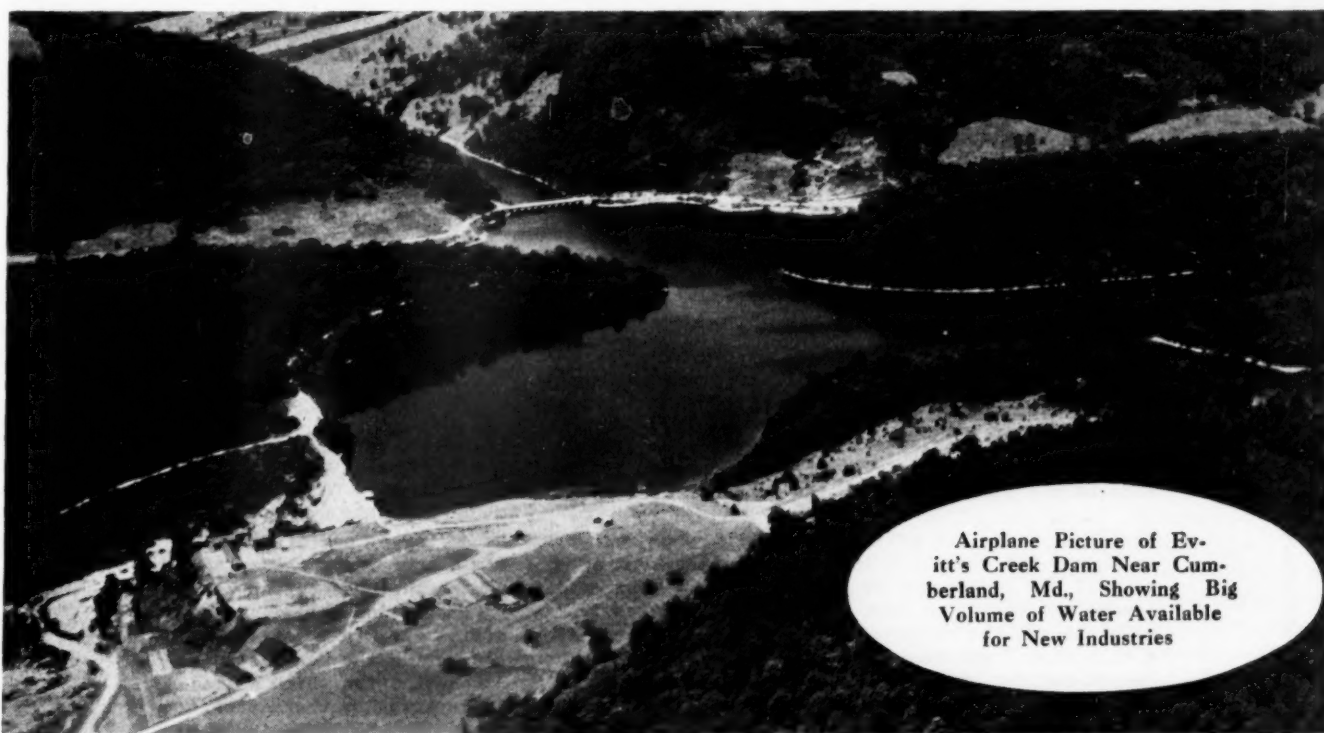
Highway departments of states, counties and municipalities are steadily extending the use of aerial photographs. One such department in the South recently had aerial pictures made of bridges, railroad crossings, street inter-

told in a most convincing manner a story of the company's ability to handle shipments expeditiously.

A cemetery, located in a suburb of a Southern city, effectively used aerial pictures in selling lots. Each salesman was supplied with an actual photograph, enlarged to 20 by 24 inches, and mounted on linen. When used in conjunction with a plat, prospects were readily shown where lots were located and the existing trees, roads, contours, and a number of lots

sired. Recently a boat in drydock was seriously damaged by an explosion that was felt for miles. An aerial photographer, at work near by, flew to the scene and obtained pictures of the boat afire, while ground photographers were turned back at the plant gate several squares from the scene of the explosion and the fire that followed.

There are few classes of business that cannot profitably use aerial views. A photograph tells volumes in a compara-



Airplane Picture of Evitt's Creek Dam Near Cumberland, Md., Showing Big Volume of Water Available for New Industries

sections and all similar locations requiring special study. These views clearly showed conditions at the respective points. With accurate measurements available in the central office it was possible to work and plan intelligently to improve unsatisfactory conditions. One state highway department by the use of ground observation crews and aerial photographers made a very comprehensive traffic survey of a 40-mile main highway on July 4 when traffic was heaviest, and thus was able to formulate plans for eliminating traffic delays due to bottle necks, bad curves, narrow roadway, dangerous intersections and other disadvantages.

Shipbuilding, drydock, transportation, terminal warehouse, export and import enterprises find air pictures a great business stimulus. Such pictures show at a glance the facilities for handling business. The Western Maryland Railway Company recently published an elaborate booklet showing numerous air views of its large terminals at Baltimore. These were sent to shippers all over the world and the aerial pictures of the facilities

already sold were accurately illustrated on the aerial picture.

"If it is worth showing, show it all" certainly applies to the use of aerial photographs. A ground picture at best can show only two sides of a structure. Not only does the aerial picture show three sides but it reveals how much of a given area of ground the plant buildings actually cover. With the ground picture the size of a building is a matter of conjecture, while with the aerial photograph a much better perspective is afforded, as well as an opportunity for studying the relation of one plant building to another.

It is not always easy to make ground photographs. Underbrush, marshes, rough roads, surrounding buildings, high fences, shrubbery and many other handicaps often confront the ground photographer. Where he may spend an entire day getting a few shots from vantage points, the aerial photographer can fly over the area, get the views and return in a very short time. In some cases the ground photographer cannot gain admittance to take the views de-

tively small space and an aerial photograph does the job particularly effectively. In all forms of advertising aerial photographs effectively tell the story of the plant behind the product.

### British Cotton Shipments Decline

Manchester, England, October 15.—Exports of cotton yarns and manufactures from the United Kingdom during September amounted to £42,152,010 compared with £12,017,921 and £50,835,200 in August and £10,600,005 and £45,186,715 in September, 1928.

Shipments of cotton piece goods in September totaled £6,626,921 representing 237,536,400 square yards, compared with £8,775,429 and 321,312,900 square yards in August and £8,104,059 and 298,228,100 square yards in September, 1928.

The cotton yarns shipped in September were valued at £1,233,347 the weight being 10,169,000 pounds. In August the figures were £1,899,004 and 15,331,000 pounds, and in September, 1928, £1,469,143 and 11,244,500 pounds.

## A Highly Appreciative Letter

Among many expressions of commendation received by the MANUFACTURERS RECORD, the following letter from the Reynolds Bros. Lumber Co. is highly appreciated for its spontaneous sincerity and unique presentation of appreciation of the value of the work the MANUFACTURERS RECORD is endeavoring to do, and it is herewith reproduced in its entirety. In reply to a request for permission to publish the letter, the Reynolds Bros. Lumber Co. wires: "Use letter as desired. Our sentiments were only partially expressed." It is such genuine approval and commendation that places upon the whole MANUFACTURERS RECORD force a fuller realization of the responsibility which is theirs in carrying on the work of aiding in the development of the nation through the upbuilding of the South.

C. H. STONE, PRES.

G. E. REYNOLDS, VICE PRES. &amp; GEN. MGR.

J. W. REYNOLDS, SECY. &amp; TREAS.



RED CYPRESS  
S. L. PINE  
POPLAR  
GUM  
VARIOUS HARDWOODS

**Albany, Ga.**

STEAM DRY KILNS  
MODERNLY EQUIPPED  
PLANING MILL

Manufacturers Record,  
Baltimore, Md.

October 21st, 1929

Gentlemen:

Acknowledging your letters of the 18th, one from Mr. Smith of the circulation department and the other over the signature of Mr. Edmonds in reference to cancellation of our subscription to the Manufacturers Record.

The first thing the writer did this morning was to make a survey of our office to learn who had cancelled this subscription, and after quite a conference the writer himself was proven guilty of the charge. The evidence which the prosecution presented was that some days ago a representative from your institution called and asked to see the writer. One of the men in the front office came to my office at a time when I was very busy, and told me a gentleman representing the Manufacturers Record desired to see me. I had in mind at that time a cancellation which we made of a certain trade journal after having given proper consideration to the matter, and as I was really busy, I sent word back that the subscription should be cancelled and that I really did not have time to go into the matter further, and whereupon I afterwards learned the gentleman left without further ceremony.

It probably does not happen more than once a year that any officer connected with this company declines an interview with any one calling at our office, even down to the blind man peddling shoe strings, and it is certainly ridiculous to the extreme that this should happen in connection with a call on the part of a representative of the Manufacturers Record. Apologies in this connection would not be sufficient. It is really a joke around our office. The Manufacturers Record is about the only paper that the officers of this company read religiously. Your edition of the 17th contains more than one article and news item that are worth more to us than several times the price of a year's subscription.

Enclosed herein is our check for \$19.50 covering three years subscription to your paper. Feel quite sure we will be in business that long, and if we all die and go out of business within six months, we have gotten our money's worth.

The writer does not know the name of the gentleman that showed us the courtesy of calling at our office. If you will pass this letter on to him or tell me where to reach him, I will write him personally.

With full appreciation of your great work, beg to remain,

Yours very truly,

Reynolds Bros. Lumber Company,

General Manager

GER/s



## The Ozarks of 1878 and 1929

[M. J. Murphy, a veteran locomotive engineer, retired ten years before the legal age on account of physical injuries received in a head-on collision, sends us the enclosed interesting and somewhat whimsical story about the development of the Ozarks country between 1878 and 1929, based on his personal acquaintanceship with it. Mr. Murphy writes: "Please don't throw me out or toss my effort into the wastebasket." We are not going to do either; we are giving to our readers, just as written, the views of a locomotive engineer who made his first tour of the Ozarks country 51 years ago and who has recently returned to his Springfield home from another tour over that section.—Editor MANUFACTURERS RECORD.]

By M. J. MURPHY, Springfield, Mo.

RECENTLY I returned from an extensive trip in a touring car over practically the same route and through the same counties in southern Missouri and northern Arkansas that as a youth I traveled by horse and ox-cart in 1878, often stopping to inquire about families and places that my first trip had impressed on my memory never to be forgotten, because of some generous act of kindness rendered by the people to a stranger, a mere youth, then passing through.

I was prepared to find many improvements in this territory as compared to conditions as I had found them 51 years ago. But, frankly, I was not prepared to find the stupendous changes now existing in the form of material prosperity and the cultural advancement of a people that only a short time ago was classed as hazel splitters, mossbacks and ignorant hill-billies of the backwoods. Gone were the log cabins with their clapboard roofs, their open-hearth fireplaces, the chinkin floors, the lean-to kitchen, the rough handmade furniture and the children's trundle-bed. Also with them were gone the homespun clothes and the coon-skin caps of the men and linsey-woolsey and cotton and gingham dresses and poke bonnets of the women. Also gone was the tallow candle, the lynch-pin wagon, the ox-cart and the wooden harrow, the hickory gad harness, the old shovel and bull-tongue plows, and with them had gone the hearty greeting and the cheery welcome of,

"Howdy Stranger, light and feed your hoss. Drat those pesky hounds. They shore raise tarnation when they smell a stranger. See that thar yaller cur? He's the fightinest houn in these parts. He can whop any coon or catermount found in these diggins before you can say scat. See that 'ar fox skin over thar? That 'ar brindle worthless lookin' dawg cotched and killed that pesky varmint nite afore last in the old woman's hen house. Take that 'ar chair over thar and sot and rest you'self. You look kinda' peeked. Reckon the women folk will rassel up some grub arter while. Did you'uns come by the ridge road? We'uns along the ridge are feelin pert but the dratted agors and chills and skeeters are pesterin the folks along the bottoms. They shore do look po'ly. Wall, I reckon the women have rassed up somethin for the innards. Yas sir, we find blue mass

and bil'd wild cherry bark and rubarb, some queen-an, and good likker will keep the dratted agor away. Stranger, better take a good snort out of that jug. It'll perk you up." (Which I did.)

Yes, gone are those big-hearted, kindly, loveable old people, but sprung from their loins are the rugged, healthy progressive Ozarkians who are the intellectual equals of any class. And who by their progressive energy have come into possession of all the modern conveniences so essential to our present mode of life.

One thing that impressed me was the fact that while the population has very materially increased in numbers in the past 51 years, yet, owing to the vastness of the territory and the productiveness of its soil, under our modern method of cultivation, there is ample room for millions of other home-building and home-loving people, and a hearty welcome to all who may come as tourists or home seekers to be our neighbors and our friends.

So impressed have I become by the wonderful development and material prosperity of the people of the Ozark regions, that I feel an irresistible urge to place as briefly as possible through the MANUFACTURERS RECORD, a true, concise statement of the present and prospective development of this region in the interest of others who may desire a change in the interest of their health and in the building of their future homes. My desire is to let my fellow man know that here in Springfield, Missouri, and the Ozark region can be found the opportunity for health, happiness and prosperity second to no place on the globe, and to use your great journal as the means to convey this message because of the splendid work you are doing in building up the Sunny Southland of which the Ozarks is a valuable integral part.

Friend Editor, although we have never met, I have read hundreds of your editorials and feel you are no stranger to me. Hence I state this urge came to me a short time ago when I was at one of the remote, back-of-the-hills fishing camps. I awoke at the first peep of day, left my cot, went to a nearby pool, took a plunge, a short swim, and a brisk rub-down, donned my overalls and rough wading shoes and climbed to the highest

point of the hills in time to watch the first glimmer of the rosy dawn, the first rays of the rising sun as it rose in all its splendor, dispelling all shadows, shedding its rays of light and health and giving full promise of a beautiful summer's day. It was under those conditions that I could faintly sense the miracle of life and feel every mood and tense of nature's perfecting. It was then the urge came to me to write this story of my recent trip, and as my thoughts were soaring to the high heavens and I could visualize the teeming multitudes of people coming in to build their homes upon the millions of yet uncultivated acres of land in this territory, a well known odor reached my olfactory nerve, the odor of hot coffee, fish frying with bacon—and bloocey went my dreaming.

So I went rushing down the hill in time to see the camp cook taking from a cold bubbling spring the yellow Ozark butter, the rich Ozark cream, fresh radishes and lettuce, and home-grown canteloupes, place them on the table and by their side the fish and bacon and large open-hearth baked pones of hot cornbread, cornbread to be split open and butter to be placed between the slices with a generous spread of native wild honey in the comb. And while eating I thought of you and the work you are doing in building up the South, and that evening when I returned to camp with a small string of bass and goggle-eye and a two pound jack salmon I would willingly have given a \$20 bill if you, or some other gifted writer had been present to see the camp cook rake out from a bed of hot ashes the Irish and sweet potatoes, with platters of roasting ears, while his boy at another bed of hot coals was carefully turning the jack salmon and the blue channel catfish in country barbecue style. And then to see the camp cook rake out from another bed of hot coals large balls of baked mud the size of footballs, inside of which was carefully cleaned and packed young, tender Ozark chicken. This with fresh-gathered, cleaned and prepared, as only native Ozark women can prepare, native wild huckleberries, dewberries and blackberries in pie and cobble fashion.

Oh, friend, if you could but see and know the Ozark region as I have for over 65 years, and come to know the rugged

honesty of the people and watch their efforts toward attaining the higher ideal of true prosperity in good roadbuilding, in schools and colleges, and Christian churches, in modern progressive banking, commercial and industrial efforts, air ports, parks and pleasure resorts, improved methods of farming, upbuilding the productiveness of the soil, the vast production of fruit, berries, vegetables and cereals, hogs and cattle, and the dairying, poultry and egg production that makes of Springfield today the largest poultry and egg-shipping point in the world and the fourth largest cream and butter shipping point; also I would have you see and understand as I can see and understand the bigness, the broadness, and the vastness of this vision that actuates and guides and binds the people of the Ozark region together, realizing as they do that within the territorial area of the Ozark range of Missouri and Arkansas of approximately 70,000 square miles of land, with its healthy climate, its abundance of pure water, and millions upon millions of acres of land yet untouched by plow still in its virgin state, only waiting for the coming of an industrious class of people to join those who are already here so that by and through this cooperative spirit of get-together, stay together and work together, until the Ozark region is brought up to that high state of productiveness that will make of this region the greatest food producing area of land of its size in the world.

You should see my home city of Springfield with its great transportation facilities reaching north, south, east and west, with their powerful, high-speed locomotives, their vast yards for switching facilities, their thousands of modern refrigerating cars, their livestock and poultry cars, assuring modern refrigeration and rapid transportation of all perishable products to the open markets of the world. You should go with me on any one of our clear, balmy, sunny days—and we have at least 300 of them out of every 365 of the year—to one of our aviation fields, mount one of the airships and sail up high enough for me to show you a panoramic view of this Empire of the Ozarks. First I would point out to you the Main Street of America, from New York City via Chicago, St. Louis, Springfield, Tulsa, Amarillo, on through to Los Angeles, Cal. Then I would point to our city of Springfield, with its network of steel rails connecting us with the Atlantic seaboard on the east, the Great Lakes and the Canadian frontier on the north, the Gulf ports and the country south of the Rio Grande river, on toward the setting sun to the placid Pacific Ocean, and then I would point out the network of paved and hard-surfaced highways leading in and out a score of different ways, putting our city

within easy reach of the outlying points of the Ozark region.

Then I would ask you to concentrate your vision on our improved highways and along those highways you would see thousands of tourist cars from all the states in the Union coming from every direction into the Ozark pleasure resorts to spend their vacations. Then I would ask you to shorten your vision and concentrate it within a radius of 75 miles of our city, and this is what you would see; scores of large, palatial, passenger motor buses, loaded to the guards, coming into or going out of the city with their precious human freight; and thousands of large motor lorries, loaded to the guards, some with livestock for our stockyard and packing plants, some with live poultry and eggs for our poultry and egg plants, some with vegetables, fruits and berries of all kinds for the local canning factories or our general wholesale shipping establishments, and hundreds upon hundreds of them from nearby towns, villages and farms, loaded with milk, cream and butterfat for our milk and cream plants, thus making of Springfield the central distributing point for a radius of at least 50,000 square miles of territory.

Then I know you would agree with me that Springfield, so happily located in the very center or heart of the Ozark region with its large packing and cold storage plants, its ample transportation facilities and ample finances, is in a position to absorb and distribute to the world's markets all the surplus production of all the perishable food, regardless of volume, that can or may be produced in a land of over 50,000 square miles of territory that is recognized as Springfield trade territory. And the proof of this lies in the faith we of the Ozarks and of Springfield have in the future, as is shown by our past and present activities in good road building, street paving, viaducts, subways, costing millions of dollars and in our present enlarged public school building program costing \$1,500,000; the beautiful McDaniel Lake just completed by the city water company, at a cost well over the half-million mark; the doctors' Medical Arts Building, just completed, and when furnished costing a half-million; the new park and park improvements and the new aviation port costing a half-million; the vast program of the Pierce Pennant Oil Company in the building of tourist hotels, filling stations and garages in Springfield and Springfield territory that will cost \$2,500,000; the building of new Christian churches, modern homes, and business buildings, summer bungalows at Springfield and various places within Springfield's territory.

And now that we are assured of the immediate building of the large hydro-electric dam just 55 miles southwest of Springfield, costing \$35,000,000; and

another 80 miles northeast of Springfield, costing \$35,000,000, both practically in Springfield territory; with this cheap power and the known abundance of all classes of raw material at hand; with our able Chamber of Commerce, their vision and their proven business ability, and our faith in their leadership, you can see that in a few short years Springfield as a manufacturing center will be to Missouri what Pittsburgh is to Pennsylvania, Birmingham to Alabama, and Gary to Indiana; thus making Springfield and the Ozarks in fact as well as in name the land of a million smiles, the land of a million opportunities for health, happiness and prosperity.

### Wood Utilization Committee

Sixteen new appointments to the executive committee of the National Committee on Wood Utilization of the Department of Commerce, and representing practically every industry touching the field of wood utilization, have been announced by Secretary of Commerce R. P. Lamont, as follows:

Ralph Budd, president, Great Northern Railway Company, St. Paul.

U. M. Carlton, treasurer, Dix Lumber Company, North Cambridge, Mass.

E. J. Curtis, vice president, Curtis Companies, Inc., Clinton, Iowa.

N. Max Dunning, architect, Chicago.

D. C. Everest, vice president and general manager, Marathon Paper Mills Company, Rothschild, Wis.

Col. A. C. Goodyear, president, Great Southern Lumber Company, Buffalo, N. Y.

A. R. Joyce, vice president, Joyce Watkins Company, Chicago.

W. M. Ritter, chairman, W. M. Ritter Lumber Company, Washington, D. C.

Reuben B. Robertson, president, Champion Fibre Company, Canton, N. C.

George W. Sisson, Jr., chairman, New York Wood Utilization Committee, Potsdam, N. Y.

W. B. Swift, purchasing agent, International Harvester Company, Chicago.

Louis J. Taber, Master National Grange, Columbus, O.

Frederick S. Underhill, Wistar, Underhill, and Nixon, Philadelphia.

Frederick E. Weyerhaeuser, St. Paul.

T. J. Wilcox, president and general manager, Linderman Box and Veneer Company, Eau Claire, Wis.

M. S. Winder, executive secretary, American Farm Bureau Federation, Chicago.

"All of these appointees," said Secretary Lamont, "have accepted service with the Committee because of their interest in the movement to perpetuate our forests. The Committee's part in this movement is the promotion of efficient wood-utilization and the elimination of waste in wood-using industries."

The Texarkana (Tex.) Independent School District voted a bond issue of \$225,000 to erect additional school buildings.



# A Florida Sea-Level Canal

By MALCOLM R. McADOO, Gainesville, Fla.

*[In view of the current discussion of a barge canal project across northern Florida it is pertinent to inquire whether, if a canal is to be built, it should not be broad and deep enough to permit the passage of steamers, thereby cutting 500 miles from the journey by sea from Atlantic to Gulf ports. The proposed canal as here described was surveyed and designed by the author of the article.—Editor MANUFACTURERS RECORD]*

I AM, and have been for the last five years, interested in bringing about a deep sea-level ship canal from tidewater to tidewater across the northern part of the Florida peninsula. Such sea-level ship canal would obviate the necessity, as with barge canals proposed across state, of changing cargoes at each terminal.

The result of my studies, based upon complete topographical maps, reconnaissance and engineering data, State and United States, shows that a feasible as well as the only feasible route for such a sea-level canal is from the Gulf of Mexico, a short distance north of Cedar Keys, to the St. Johns River, a short distance south of Jacksonville. This involves a distance of approximately 80 to 90 miles from Gulf tidewater to Atlantic tidewater.

The canal would be, as stated, a sea-level canal. It would be a ship canal, not a mere barge canal. It would have 40 feet of water at mean low tide, the same as that in Ambrose channel, the controlling depth entering New York harbor.

This is not a Florida enterprise. Florida is simply the physical obstacle in the way of the shortest route from Gulf ports to New York and European ports. Despite the fact that it is not a Florida enterprise, Florida would greatly benefit by it.

The necessity of a canal across Florida has been recognized for years. A number of canals have been proposed, beginning in the '70's with the St. Marys-to-St. Andrews route by way of Okefenokee Swamp. Within the last 20 years a number of other canals have been proposed; one via the Santa Fe river; another via Lake Harris, called the Lake Harris route; another via Lake Okechobee; and still another farther south. All of these as proposed are shallow barge canals with locks, which vary in number from six to 16. Each would necessitate transfer of cargoes from deep-sea vessels to barges and from barges to deep-sea vessels at both ends of the canal. There would obviously be neither time nor transportation expense saved by any of these routes by this method. Each of these routes proposed (shallow lock canals) is circuitous and lengthy, and each would involve

at least 75 per cent of the cost required to build the sea-level canal which I have designed. The fullest details can be furnished, if desired, to confirm these conclusions, all from the various reports made during the last 50 years by the United States army engineers.

The width of the canal I propose should be either 200 feet at the bottom, to which width the Suez canal is now being widened from 150 feet; or preferably 300 feet at the bottom, the same as the channel of the Panama canal through Culebra Cut. Suitable basins with docking facilities would be provided along its route. These basins would become great industrial centers, with cheap water transportation and raw goods—cotton, tobacco, lumber, oil, coal, iron, naval stores—available thereby from Gulf ports.

The Suez canal (sea level) is 104 miles in length, with some ten passing basins; the length of the Panama canal (lock) is 50 miles, and the Houston ship channel (sea level) is 57 miles in length. These facts give a proper basis for a comparison between them and the canal I have designed.

Based upon the complete topographic and engineering data and reconnaissance, as stated above, a preliminary location, with complete maps, profiles and designs, which will be within five per cent of the final location, has been made, and the approximate cost from tidewater to tidewater of the proposed canal, based thereon, is estimated to be: For the 200-foot channel, \$125,000,000; the 300-foot channel, \$150,000,000.

According to the annual report of the Board of Engineers, U. S. A., for the calendar year 1927, the water-borne commerce of the United States for that year amounted to 532,500,000 short tons, valued at \$25,500,000,000. Of this, the water-borne commerce to and from Gulf ports upon which a Gulf State canal must depend for operating expenses and earnings, was as follows:

|                | Short Tons | Value           |
|----------------|------------|-----------------|
| Imports .....  | 7,084,029  | \$279,237,232   |
| Exports .....  | 16,014,372 | 1,086,745,347   |
| Domestic ..... | 50,614,451 | 1,563,649,866   |
| Totals .....   | 73,712,852 | \$2,929,631,866 |

This has increased regularly about four per cent per annum for the past ten years.

Of this, water-borne commerce of the

principal Gulf ports was as follows:

| Port              | Short Tons |
|-------------------|------------|
| New Orleans ..... | 15,270,038 |
| Houston .....     | 12,000,414 |
| Port Arthur ..... | 8,021,823  |
| Beaumont .....    | 8,068,306  |
| Galveston .....   | 5,848,230  |
| Texas City .....  | 4,675,619  |
| Tampa .....       | 3,373,477  |
| Mobile .....      | 3,962,747  |

The Houston sea-level canal, 57 miles in length with 30 feet of water at mean low tide, was finally completed in September, 1925. Houston in 1927 had as the result thereof become our seventh largest seaport based on tonnage in and out.

Cargo tonnage through the Panama canal for the year ended June 30, 1927, was 27,748,815, and that for the Suez canal for the year 1926, the latest available figures, was 26,060,277 tons.

The Florida sea level canal, built as I have designed it by the only feasible route, would save 505 miles between New Orleans or the mouth of the Mississippi river and New York City, with corresponding savings in distance between other Gulf and Texas ports and New York City and European ports.

It is well to quote here from Mr. Hoover on the Mississippi river:

"In the days of the glory of Mississippi river commerce, the river was one vast system of main channels and tributaries. It was the artery of the great valley. Vessels from the upper reaches of the Ohio voyaged uninterruptedly down to New Orleans. \* \* \* We intend to restore what once existed."

Again he said:

"I visualize the Mississippi system as 9000 miles of connected waterways, a transportation system of which some 3100 miles are trunk lines and 6000 miles are laterals. That is, a main north-south trunk line 1500 miles in length, reaching from New Orleans to Chicago, and there connecting with the Great Lakes system, and crossing this, a great east-west trunk line 1600 miles in length, from above Pittsburgh through Cairo to Kansas City. Over a large part of those main stems we can maintain nine feet of depth.

"In addition to these main stems, we must diligently improve feeders through the Tennessee, the Cumberland, the Arkansas, the upper Missouri, the upper Mississippi, the Monongahela, the Alleghany, and other streams to workable depth for modern craft.

"It will serve the vast heart of Amer-

ican agriculture and will place great commercial and industrial cities with upward of 7,000,000 people in the cheapest of communication with each other for cheaper transportation of agricultural and bulk commodities over a great hinterland of states."

Another way to estimate the value of the canal I propose is to conceive a situation whereby the great trunk line railroads operating between New Orleans or St. Louis or Chicago and New York by building a cutoff of 100 miles would save some 500 miles in haul, with corresponding saving in the cost of transportation. The canal I propose virtually amounts to picking up the Gulf ports, with their vast and ever-increasing tonnage, and placing them 500 miles nearer by water to New York and European ports.

It is believed, in view of all the facts, that the annual tonnage through

the proposed canal based only upon present waterborne tonnage to and from Gulf ports—73,712,852 short tons in 1927—would amount to not less than 40,000,000 to 50,000,000 cargo tons, and that ship owners would, with profit to themselves and shippers, gladly pay a toll of twenty-five cents a ton for passage through it, rather than make the long trip through the Florida straits with the contingent additional operating cost and loss of time. The net result for the first year in operation, therefore, is estimated as follows:

|   |               |
|---|---------------|
| Estimated cost of 300-foot channel 40-foot depth, 100 miles including jetties in Gulf of Mexico ..... | \$150,000,000 |
| Estimated gross earnings per annum (40,000,000 tons at 25c) first year .....                          | 10,000,000    |
| Estimated operating expense per annum .....   | 1,000,000     |
| Estimated net per annum, first year .....   | 9,000,000     |
| This net return would be four and   |               |

one-half per cent per annum on \$200,000,000.

Okefenokee Swamp, the source of the Suwannee river, is 117 feet above sea level. Between the crossing of the river by the canal and its source there would be three dams each approximately 35 feet high, each to have locks to provide means of navigation for shallow draft vessels between the canal and the river's source in Georgia. At each of these dams there would be about 40,000 horsepower, which would be utilized by the building of hydro-electric plants. This power would light the canal and afford a large surplus in addition, for sale in Florida at current prices.

Work on every part of the canal could be simultaneously conducted, and it could, therefore, be completed in a very short time after it was begun.

## The Lower Rio Grande Valley of Texas

### What It Is Now Doing in Fruit and Vegetable Growing and a Suggestion as to Its Future Possibilities

By R. C. MORRIS, Secretary and Treasurer, Frontier Lumber Co., Brownsville, Texas.

The lower Rio Grande valley in the southernmost tip of Texas, and 400 miles farther south than San Diego, Cal., has made the claim that it is the most productive area in the United States, size considered, and it appears to be in position to maintain that claim.

The valley includes Cameron and Hidalgo counties and parts of Starr and Willacy counties. Having an irrigable area of approximately 1,000,000 acres, of which 520,000 were cultivated and irrigated in 1929, the valley during the season from October 1, 1928, to July 1, 1929, shipped a total of 26,656 cars of fruit and vegetables. Since that time up to September 15, 105,000 bales of cotton have been harvested and shipped.

Because of the great variety of products grown and the constantly increasing production, the valley demands that it be considered in any move affecting the fruit and vegetable producing sections of the nation.

In the shipments last season there were included cabbage, lettuce, potatoes, onions, carrots, beets, green corn, spinach, beans, tomatoes, turnips, cucumbers, canteloupes, watermelons, anise, brocoli, dandelions, endive, escarole, parsley, romaine, squash, grapefruit, oranges and lemons.

The citrus industry is the leading agricultural undertaking in this small but

exceptionally fertile area. A survey recently completed by United States Department of Agriculture inspectors reveals there are at present growing in the valley 5,118,981 citrus trees. The valley last year for the first time produced a one million-box crop and it is estimated the crop now ripening will pass the two million-box figure.

That the citrus industry is but in its infancy in the valley is shown by this census. It was found that only 712,353 of the total trees growing were five years or older. This is the age when the first really commercial crop is produced, but some fruit is gathered from trees as early as the third year in the valley, which has only 1,569,838 trees more than three years old. The ages indicate that production will double each year for the next three years and that in the season of 1930-32 production will have reached approximately 10,000,000 boxes annually; provided, of course, no disaster befalls the industry.

When all the trees planted reach commercial production the valley should be shipping 25,000,000 boxes each year. Present production is but a drop in the bucket compared to the twenty-three million box yield of Florida orchards last season or even to the fifteen-million production forecast for that state this year. But the valley is young and the possibilities are great. The superior quality of

valley fruit is creating a demand for it wherever it is marketed.

Another interesting thing revealed in the survey is that, of the total trees growing in the valley, 1,699,824 trees were planted during the past year. Plantings are continuing at approximately the same rate this year as new areas are brought under irrigation. Of the total number growing, 3,733,749 are grapefruit; 1,320,614 are oranges, and all other varieties total 75,618.

No fertilizer has been used in valley orchards to the present time and it is believed there will be little need for enriching the already exceedingly fertile soil, for many years, if ever.

The climate is especially adapted to fruit and vegetable production with an annual mean temperature of 73 degrees. There is seldom a freeze, and frost ordinarily does not occur oftener than three or four times each winter. Some of the land now is producing as many as three crops each 12 months.

But all this is mere statistics. The valley is much more than a fertile garden—it is that long sought land where human beings find ideal conditions for health, wealth and happiness; where hunting, fishing and boating are available at all times and where golf courses are in use the year round, where honest toil earns reward out of all proportion to the returns from other sections.



## Mechanization of Southern Farming

Tractor dealers of the South today realize that it is good business to cooperate with farm bureaus, agricultural colleges and other agencies to bring machinery farming to Southern farming.

Modern machinery has made the fac-



Holt Model "38" Combine Harvester Drawn by Caterpillar "Fifteen"

Harvesting wheat in 35-acre field on W. D. Graham farm. In 13½ hours operating time, 976 bushels of wheat were harvested



"Twenty" Tractor Pulling 4-Disc T. & S. "Caterpillar-Special" Plow on Farm of W. D. Graham, Mt. Ulla, N. C.



In the Shenandoah Valley, in Orchard of Governor Byrd of Virginia

This Caterpillar "Ten" can pull the 300-gallon Friend power sprayer in low gear, keeping the rig moving slowly forward or can increase speed to 3½ m.p.h. The tractor negotiates rough mountain orchard or soft wet soil. Whatever the weather, spraying is not delayed

ories of the South an industrial force to be reckoned with; now it is planned to give Southern agriculture a similar status. In this movement Caterpillar tractor dealers have been active. The Yancey Tractor Co., of Albany, Ga., in cooperation with the State Agricultural Extension Department, operates a large farm to prove the value of power farming over mules and hand labor. Last year this firm, on a 168-acre tract, demonstrated that peanuts could be grown much more cheaply with tractor power, a saving of 30 per cent being made on labor cost alone. The firm has continued its experiments and is growing, in addition to peanuts, corn, oats and rye. The small grains will be harvested with a combine and it is hoped to secure valuable data on combine methods.

The Carolina Tractor & Equipment Co., of Salisbury, N. C., early in August conducted a tractor and combined harvester demonstration on the farm of Whit D. Graham, Mt. Ulla, N. C. A Caterpillar "Fifteen" and a combined harvester, said to be the first combine to operate in North Carolina, harvested 976 bushels of wheat in 13½ hours in a 35-acre field. This showing was made despite inexperience of the crew in using combines.

## Reforestation Progress in Georgia

Trees Could Be Grown Profitably on 6,000,000 Acres of the State's Abandoned and Unprofitable Farm Lands

C. A. WHITTLE, Atlanta.

Demand for forest seedlings in Georgia with which to reforest cut-over and abandoned farm lands has reached large proportions, with every indication that the rate of increase in demand will continue indefinitely. Under the Clarke-McNary forestry act of Congress, funds are available to each state for growing and selling seedlings at cost. The state tree nursery in Georgia is operated by the School of Forestry of the Georgia State College of Agriculture. Demand for seedlings is more than twice as great as the nursery can supply, consequently the capacity of the nursery at Athens has been doubled and a branch is also to be established in south Georgia.

Greatest demand comes from the coastal plain portion of the state and orders for 100,000 to 1,000,000 pine seedlings are being placed by individual land owners, while there are many orders for smaller quantities, with longleaf and slash pine about equally divided. Both, of course, are "dual purpose" trees, that is, they are useful for both lumber and naval stores production.

Forest tree planting has been in progress to a noticeable extent in Georgia for the past three years, the largest operations by lumber and naval stores interests using stock from their own nurseries. No effort has been made to enumerate the acreage. Some of the pine plantations along the highways have attracted much attention, cooperative demonstrations conducted by the Georgia Forest Service and the property owners.

A new force brought into play for the first time this year is that represented by 150 agricultural vocational high schools, which have put forestry into their courses. Most of these have already acquired school forests and old field areas on which to practice forestry and reforestation. This fall the upper grade boys are gathering tree seed and thus they have found a new way to make money. The state nursery and the commercial tree seed companies are offering good prices for all the seed of certain species they can gather. Not only are the school tree nurseries to supply planting stock but demonstrations are being conducted by the Georgia Forest Service to show the school boys how to transplant seedlings and young trees from the forest to the fields. Tree planting, therefore, will start this year in 150 different rural communities, each no doubt to be an effective demonstration

toward leading land owners of the region to do likewise.

Pine planting in Georgia has been taken up deliberately for profit, most of it done by men who have figured closely and thoroughly the cost and probable returns. Cheap land is a fundamental factor; quick growing pines that in 10 to 12 years will begin to return profits in naval stores, poles and pulpwood from trees to be removed in thinning, and naval stores until trees are to be cut for lumber. It is figured that longleaf, slash or loblolly pine planted to a stand of about 8 by 8 feet will average a growth equivalent to 500 to 800 board feet per acre each year and also bring in returns from naval stores.

Georgia has about 6,000,000 acres of abandoned and unprofitable farm lands, now a dead loss to the owners, that could be growing trees. They will grow nothing else profitably, nor can they be planted to anything else that will cost so little to grow as trees. No growth of the land is so certain and safe as forests.

Other Southern states are making progress in growing pine. The greatest forest plantations probably are at Bogalusa, La., where the big lumber mills are planting as fast as they cut, and millions of seedlings are grown each year in their own nurseries.

### \$850,000 Courthouse

Plans are being prepared by Claude H. Lindsley, Jackson, Miss., for a new \$850,000 courthouse to be erected in Jackson by the Hinds County Board of Supervisors. Bids for erection of the building are expected to be invited in December and construction started about the first of the year. The courthouse will consist of a main building and 2 wings, 195 by 89 feet, the former being 5 stories and the latter 4 stories. Space will be provided on the fourth floor for women's and juveniles' jail quarters, jail laundry and kitchen, while the men's jail quarters and the jailer's quarters will be on the fifth floor. The third floor



Courthouse for Hinds County, Mississippi

will contain a circuit court room, circuit court jury dormitory and dining quarters, balcony, quarters for county superintendent, offices of home and farm demonstration agents and grand jury room. On the second floor will be a circuit court room with adjuncts such as jury room, witness room, offices for the clerk of the circuit court, law library, county court room and chancery court room. The first floor will provide for the sheriff's office, tax assessor's office, chancery clerk's office and quarters for the board of supervisors; there will be basement space for the county health department, county engineer's office and for the criminal receiving department and sheriff.

### \$950,000 CANAL BONDS SOLD

Part of Plan to Purchase Florida East Coast Canal—Government Will Assume Ownership and Expend \$4,221,000 to Develop

Daytona Beach, Fla.—Bonds in the amount of \$825,000 have been sold by the Florida Inland Navigation District, Charles F. Burgman, of this city, chairman of the board of commissioners, to the Florida East Coast Canal & Transportation Co., St. Augustine, Fla. An issue of \$125,000 was sold to a group of investors represented by George Moody, Flagler Beach, Fla. The sale of these bonds, which carry an interest rate of 4 per cent, will guarantee the purchase of the Florida East Coast Canal from Mayport, near Jacksonville, to Miami, it is said, a distance of 385 miles, and is regarded as an important step in a plan to secure government ownership, development and maintenance of the canal. The Government has already approved plans for the expenditure of \$4,221,000 to improve the property and \$125,000 annually for maintenance.

### BIG DALLAS BUILDINGS ANNOUNCED

Dallas Power and Light Company Plans \$1,250,000 Structure and Other Interests Plan \$1,000,000 Building

Dallas, Tex.—Two big buildings to cost \$1,250,000 and \$1,000,000, respectively, will be erected in Dallas within a short time if plans of the promoters materialize. The Dallas Power and Light Company plans to erect an 18-story structure at Jackson and Browder streets, at a cost of \$1,250,000, including site, if the city will permit this expenditure to be added to the property value of the company on which a 9 per cent return each year is allowed. Finance Commissioner John C. Harris announces



that the city commission is now investigating the proposal and will soon hold conferences with company officials regarding it. The company would use a ground area 100 by 100 feet for the main building and erect a two-story structure, connecting and running through to Commerce street to give a through passageway.

The erection of a 20-story building designed especially for housing large oil industries, is being promoted by Frank O. Witchell, architect, and Hale Davis, a Dallas real estate operator. Plans for the structure are being prepared by Lang & Witchell, Dallas, the exact dimensions being indefinite at this time. A site at Young and Akard streets covers an area 77 by 100 feet. The project will involve an estimated expenditure of \$1,000,000.

#### Approaches to Dam Site

Contract has been awarded by the Board of Awards, Baltimore, to Harry T. Campbell & Sons Company, Towson, Md., at \$99,420, for building approaches to the site of the proposed Prettyboy dam on the Upper Gunpowder River in Baltimore County, where the city plans a \$3,000,000 water project to include the construction of a dam to impound 26,000,000,000 gallons of water.

#### \$2,500,000 OFFICE BUILDING

##### Tentative Plans For Atlanta Project

Atlanta, Ga.—It is understood that the city of Atlanta, Mayor I. N. Ragsdale, will lease the old city hall site to the Carling Hotel Co., for a period of 65 years, and that the company, which is identified with the Dinkler interests here, will erect a \$2,500,000 store and office building on the property within three years. Tentative plans for the structure call for 20 stories, of the set-back type, with a double arcade for shops. G. Lloyd Preacher & Co., Inc., Atlanta, are the architects and engineers.

#### Authorize Heat Sterilization of Florida Grapefruit

Use of heat sterilization for Florida grapefruit as a condition of interstate movement is authorized by the Secretary of Agriculture in connection with packing houses in that state, in administrative instructions amending the quarantine on account of the Mediterranean fruit fly. This method has already been given practical application in the treatment and marketing of some 20 carloads of fruit, and fruit thus treated has been sold at normal including top prices in Northern markets. It should

be distinctly understood, the department says, that neither this nor any other method of sterilizing host fruits and vegetables from Florida, is being given to infested fruit or vegetables. Sterilization is merely an added precaution over orchard and packing house inspection to eliminate any residual risk of spread of the pest. Authorization of this method is released at this time in response to earnest requests of the growers, packers and shippers concerned.

#### 42-MILE PIPE LINE

##### Magnolia Company Lets Contracts for Oklahoma Project

The Magnolia Pipe Line Co., Dallas, Tex., plans a 42-mile, 8-inch pipe line from the Oklahoma City oil field to Purcell, Okla., to connect with the company's main line. Contract has been awarded to the MacPherson Construction Co., Dallas, for ditching and to Stewart Brothers, Beaumont, Tex., for stringing the pipe. Work is expected to begin November 1 and the line completed within 90 days, at an estimated cost of \$700,000. It will have a capacity of 125,000 barrels daily and pipe is said to have been ordered. Two 55,000-barrel storage tanks will be erected.

## \$1,000,000 Addition to Cold Storage Plant at Kansas City

A million-dollar addition to the plant of the United States Cold Storage Co. at Kansas City, Mo., was recently completed; with 2,000,000 cubic feet more of space the plant now comprises 6,000,000 cubic feet and is said to be the largest cold storage plant west of Chicago. Both the old and new units were built by the E. W. Sproul Construction Co., Chicago, and insulated with six to eight inches of cork supplied by the Cold

Storage Insulating & Equipment Co., Chicago. Refrigeration piping and equipment was furnished by the Ball Ice Machine Co., St. Louis. A portion of the new unit is equipped with bunker cooled air refrigeration and ventilation designed by the staff of the United States Cold Storage Co. The entire building is equipped with the dry pipe system of the Globe Automatic Sprinkler Company.

Refrigerating equipment for cold storage and a 300-ton ice plant consists of two 385-ton and one 225-ton Ball ammonia compressors and one 100-ton York horizontal ammonia compressor. Ammonia is condensed in six Vogt shell and tube condensers, each 14 feet by 54 inches.

Trackage facilities are provided to accommodate 50 cars at one time, erection of the addition necessitating new tracks for 20 cars



6,000,000 Cubic Feet of Storage Space Available in This New Plant

# The Hawley-Smoot Tariff May Fail

Exceptions, Free Trade Spots and Antique Administrative Provisos; Alleged Economists Against the Tariff; Farm Debenture in the Tariff Bill; Congressional Lobby Investigation

By WILBUR F. WAKEMAN, Former U. S. Appraiser of Merchandise, District of New York.

Number 33.

**T**ARIFF legislation at Washington is in doubtful status, and this is due to unsound thinking on protection and the efforts of many industries for special favors by way of low or no duties on raw and semi-finished competitive foreign materials.

Consideration of a new tariff law started, very properly, with hearings by the Ways and Means Committee, H. R. Presenting any subject, important or insignificant, a witness was given ten minutes to present or to explain his brief. Occasionally questions by committee members extended hearings, but from the first day Chairman Hawley seemed to be in a hurry to get through with the task of writing a measure that would affect every American industry, favorably or unfavorably. The gravity and seriousness of a new tariff law did not seem to impress the chairman as requiring deliberation born of ample consideration. The mistake was that witnesses were not placed under oath. Sub-committees went to work, and it is doubtful if many of the 11,000 printed pages of statements, not testimony, were even read by its members. The Hawley tariff bill emerged from the committee and under the machine rules of the House of Representatives was quickly passed and sent to the Senate for concurrence. The measure had many good features but retained and extended the cumbersome laws of administration, and neglected most important raw materials of competitive character.

In the Senate, the Finance Committee, in its hearings, did hold witnesses, in part, to their oaths or affidavits, which reduced the volume of testimony but did not materially improve the Hawley bill, and in some cases made it less protective. Opponents of the protective tariff immediately began an intensive campaign of attack upon the passage of the bill, not by calling attention to weak points from a protective tariff standpoint, not in citing great raw materials which should have been tariffed, not in calling attention to the cumbersome administrative provisos, but by malicious misrepresentation, very similar to the campaign of 1890, after the passage of the McKinley Act on October 1 of that year. It

has been said that William McKinley, Jr., was defeated for re-election to Congress by his own legislation. This was not so. The fact is that the Ohio legislature of 1889-1890 had gerrymandered the state and made McKinley's district hopelessly Democratic.

Now, before the U. S. Senate, we have a tariff bill with many good features but replete with free trade spots, some unfortunate discriminatory features and a continuation of antiquated and cumbersome administrative conditions. A coalition of senators against a simple, straightforward protective tariff never could have been formed, for the instructions of the dominant parties endorsed by the American people had forbidden such procedure at the polls in November.

A majority of both sides (politically) in the Senate want to serve the people faithfully, but nation-wide publicity of misrepresentation has affected some, while possible party advantage in the campaign of next year has reached others. Today, the situation is one of "For" and "Against" in the Senate, but coalition against the bill will break in the consideration of rates of duty, and we may yet have a fairly good tariff law.

All Simon-pure protectionists criticize the Hawley-Smoot measure for its many weak points, and the opposition attacks its protective features from every standpoint, consequently in nearly all publications the measure seems to have few real friends. This is supplemented by those who want protection for their own products, and actually oppose tariff duties on the things they use. No better illustration there is than in potash, a necessary ingredient of fertilizers. The farmers of America are in the grip of the German-French potash trust. We have an unlimited supply of potash here—in the ground—and yet when a tariff on potash, which would develop American production is proposed, the farm groups at Washington put in their veto. How short-sighted this is when the farmer is seeking protection on everything he produces, but would deny it to others! How blind the farmer is too not to realize that the German-French potash trust has him by the throat and practically dictates the profits he may obtain, by the prices charged for potash used in the fertilizer. Protection to potash would give full American devel-

opment. It would insure competition with the foreign product which would save millions a year to agriculture, and would make this nation independent of others in peace or war in this most essential product. It is not the farmer alone who adopts personal selfishness by such exceptions or free trade spots. It applies to almost every industry in a small or big way and appears in every schedule of the pending measure. That all "errors of omission and commission" will be corrected from the floor of the Senate can scarcely be hoped for. Indeed, the pending bill when completed may be worse than now, and result in no new tariff of 1929.

## **Alleged Economists Against the Tariff**

"It took me less than a year to get away from the free trade teachings of my Alma Mater after I had left college," said a young friend of mine who was questioned on the subject. That is the experience of nearly all graduates who enter the business field. In the professions, many graduates remain theoretical free traders all their lives, excepting possibly physicians, who in seeking cause of mental depression find that business worries are the cause, and business depression is founded upon tariff instability. As for the other professions, ever academic and dealing with theories rather than actualities, there is a mass formation of economists and professors of economics always available to interpret business ills. Such an emergency squad has been enlisted by the Business Research Bureau of the University of New York. A word as to what this school of learning stands for: One of the oldest colleges in New York, early extending courses for the study of law to young men and women who might avail themselves of its benefits while otherwise occupied, it has struggled along with limited income and cramped quarters until quite recently. Certain large and generous gifts have now been bestowed by sources of European origin and it has become prosperous in this city of vast opportunity. These gifts have enabled this university to enlarge its endeavors vastly.

This Research Bureau has recently given out to the metropolitan press the results of a questionnaire covering 196 economists in 32 states, and has claimed



that 90 per cent of them are opposed to the Hawley-Smoot bill. The questionnaire was not sent to professors of economics of agricultural institutions, "who might conceivably be biased in the interest of farmers," says the summary of the alleged research bureau. Why omit the professors of agricultural colleges who are really the only class of economists who have given honest research into food production upon which we all depend for sustenance? Agricultural production is the most important of all to all.

This summary of an alleged questionnaire, originating in a research bureau of a university well known for its alien or free trade teachings, reads like a composite review of all the attacks of this year upon protection, but directly aimed at pending legislation. The summary will have wide distribution, and should be read and interpreted directly contrary to its words and conclusions.

#### Farm Debenture in the Tariff Law

A tariff law deals with imports of foreign merchandise, and should not include a bounty on exports. Debenture is nothing if not a bounty, and is pronounced by competent lawyers as unconstitutional. This is denied by Congressmen interested in its adoption, but it is sometimes said that the best of lawyers at home, coming to Washington, get so mixed up with statesmanship or future re-election that they forget their law and, as many Congressmen are lawyers, perhaps this has happened to those who are defending this unwarranted amendment to the present tariff bill. Or perhaps they take the view of its constitutionality as expressed by Congressman Amos J. Cummings of New York, who in 1893 said, "What's the constitution among friends?" From an economic standpoint, farm debenture sounds like the English "dole" and it is doubtful if practical farmers really want it. In addition to this "dole" as debenture seems to be, it will undoubtedly lead to greatly increased overproduction in some lines with real detriment to agriculture generally. An adequate protective tariff added to the farm loan laws should be about all the farmers should expect in one year. Farmers have been as reckless as other classes in borrowing, installment buying, and speculation in farm land. Values in farm lands have been marked up to a point where it is difficult to name production therefrom that would mean a profitable crop. With diversification of the crops by and through a protective tariff, farmers would come nearer to permanent prosperity.

#### Congressional Lobby Investigation

The Senate lobby investigation by a sub-committee of the judiciary committ-

tee with Senator T. H. Caraway of Arkansas as chairman, will, in my judgment, not get very far nor dig very deep. Mr. Caraway is correct in his endeavors to rid Washington of the professional lobbyist, or put him under proper regulation. From the first Congress in 1789 lobbyists have always been within call of the capitol. In the early nineties, one of the most successful lobbyists, Nathaniel McKay, was asked about the procedure of the lobbyist, and he replied, in effect, "any way to get votes to pass a measure" and "deal with the members of committees of Congress who have your bill in charge. I classify Congressmen as follows: First, members who want to meet the lobbyist, and they are 'easy'; second: Members whom you have served in the campaign, or who want help for the next election; and, third: Members who can be reached only with cold facts. To them I send the proper party with the facts." This summation was McKay's basis of lobbying but whether he would make this classification today, I don't know.

Dealing only with the tariff and customs administration, the word lobbyist is too limited; the word used should be customs practitioner and in Washington they are many. These practitioners may represent some individual, some importer or industry or group of industries, or pretend to represent some one; they do not stop at legislation but operate in every department of customs administration of the law. In legislation they may represent any side, sometimes both sides of a question as was the case recently regarding the famous "cherries in brine" matter. Practitioners know every point of the law better than the legislators who have approved it. After a new tariff law has been adopted the customs practitioner seeks customers, either among importers or foreign manufacturers. He takes their cases on a 50 per cent basis of refunds obtained plus expenses. The "C. P." piles up protects and appeals from the duties assessed by the collectors of customs—the divided authority in customs administration gives the C. P. great advantage—and after many months, sometimes years of manipulation, he emerges with his 50 per cent of refunds amounting to a comfortable fortune. Fully 70 per cent of customs cases involving classification are lost by the government, and in every case lost the law is rewritten downward. As a rule, domestic producers know nothing of these adverse decisions, until foreign competitive merchandise drives them from the home market.

Formerly lobbyists worked for legislation and in the departments at Washington, but now the customs practitioners or super lobbyists cover legislation and every branch of administration of the

law, from the preparation of the invoice of merchandise abroad to the release of imported merchandise, and to the court of final resort for refunds. In important matters the C. P. work together and already in the present situation a representative of a well known group has been before the Caraway committee with intangible results for the investigators. The Caraway committee can, if it will, uncover conditions which, when corrected, will expedite legislation and remove the influences of the "super house" composed of unidentified lobbyists and customs practitioners, who bring discredit upon our national legislators.

[With this issue the MANUFACTURERS RECORD concludes the series of tariff articles by Mr. Wakeman.]

#### Contracts on \$410,000 Waterworks

Griffin, Ga.—Contracts recently awarded in connection with the new Griffin water supply development, to cost approximately \$410,000, include the following: Unit 1, for water mains with gate valves, blow-off and air valves, was awarded to the Hornbuckle Contracting Co., Atlanta, Ga.; unit 2 for plant drains, to the McClelland Co., Charlotte, N. C.; unit No. 3, for filtration plant, McClelland Co.; unit No. 3A, filter plant heating, McClelland Co.; unit No. 3B, filter building elevator, Park Manufacturing Co., Charlotte; unit No. 4, raw water pumping station, McClelland Co.; unit No. 5, filter equipment, E. W. Bacharach & Co., Kansas City, Mo.; units Nos. 6, 7 and 8, for pumps, motors and pump erection, Burford, Hall & Smith, Atlanta, using General Electric motors and De Laval pumps; unit No. 9, for outside piping, McClelland Co., and unit No. 10, for steel tanks, the J. S. Schofield's Sons Co., Macon, Ga. Several weeks ago contracts were awarded to the U. S. Pipe & Foundry Co., Burlington, N. J., for all pipe and fittings and to the Chapman Valve Manufacturing Co., Indian Orchard, Mass., for valves. The job consists of a river pumping station, 10 miles of 20-inch main, a filtration plant, 1,500,000-gallon clear water reservoir and a 300,000-gallon elevated storage reservoir. Robert & Company, Inc., Atlanta, are the engineers.

#### \$500,000 Medical Arts Building

Monroe, La.—The construction of an 11-story, \$500,000 medical arts building here will be undertaken by James A. Noe, C. H. McHenry, both Monroe; O. E. Hodge, Ruston, J. S. Hunt, Hodge, and associates, who plan to organize a company to carry out the project. Plans will be prepared at once, it is said.

## Frenchman Contrasts American and French Utilities

Georges Lechartier, writing to the Baltimore Sun, draws some interesting conclusions from his study of American business methods in contrast with such enterprises in Europe. His observations on this subject follow:

"The impression which is most strongly felt by the foreigner who visits the United States after a three years' absence is, of course, that of the astonishing, almost incredible prosperity that he sees throughout the country. If, trying to fix the true causes of this prosperity, he overlooks for one moment the exceptional economic conditions which favored its development after the great war, he finds out that the first and main factor is American efficiency.

"This efficiency, as far as he can judge, results from two conditions: First, by the most careful thrift in the methods of using the natural resources, *i. e.*, the raw material; and second, by the development among the directors of a keen sense of working power of men so that every worker in the enterprise can be assigned a task where he can render the greatest service, considering his own skill or ability.

"The first condition is a basic rule of economics, as it is obvious that the director of an enterprise who produces an article at a lower cost than his competitor has more chance to find more buyers for it, and, consequently, to make a greater profit. But producing at lower cost implies a greater economy in the production, either by using constantly the most modern and improved machines or by forcing less waste in handling the raw material, or both.

"The second condition can only be met through a constant survey of the workers and employees, so that every one of them may prove always to be the fittest for his task and the most capable of fulfilling this task satisfactorily in the best time. And there is the point where American methods are mainly different from those in use in most countries of Europe, particularly in France.

"In this last-named country many offices connected with the administration and almost all the enterprises which are state monopolies, like the telephone and telegraph, like the manufacturing of tobacco and matches, are filled, not at all with specialists and experts, not even with men who have in any way been trained for the work they are to accomplish, but with relatives or friends of politicians. The best place is but seldom given to the best skilled. It is awarded

to the place-seeker who is best related in the political world. Favor prevails over capacity.

"The result is, of course, that public services in France are wholly unsatisfactory and the general economy deficient. Let us take an example. If one has to telephone in any place in the United States the answer from central comes almost as soon as he has taken the receiver from the hook and the number asked for is given without any delay. Wrong numbers and cross-wires are quite exceptional.

"In Paris you may wait from 2 to 10 minutes—there are records of 20 or more—after having lifted the receiver and before the young lady from central condescends to answer. Meantime you may distinctly hear this young lady having a private chat with another hello-girl along the line and dealing with such topics as these: 'Did you go to the movies last night? It was grand. The hero was Andre Roanne. He is such a darling, isn't he? . . .' Or you may be informed in the same way of the 'dream of a dress' central is going to wear at that party 'where she is going to have such fun with . . .' and all the names of the proposed participants are given, with an eulogizing introduction for each, while you wait.

"At last your turn comes. After central has informed you, with the bored voice of one who is unduly disturbed, that 'she is listening' and you have given your number, you hear a great number of various noises, ringing and infuriated calls; and at the very moment when you begin to believe that at last you are going to speak to the party you have called, a totally unknown voice answers angrily that you have got a wrong number and comments on the 'clumsiness of certain people who cannot even call properly their numbers.' Or you find that you are connected with a man who, mistaking you for central, immediately abuses you for having kept him waiting for fully twenty-five minutes, and informs you that he will let the general superintendent know about it; or else you are cut into an intimate conversation between a couple of lovers, who are going to marry next week, and you cannot get disentangled.

"When you finally hang up and ring excitedly again you do not get any answer and you have a deep impression that all are dead on the line. If you finally resolve that 'it cannot last like that forever, and you will report to the

superintendent of your district,' it will be only more time lost, as the responsible girl has certainly been given her place by a Senator or Deputy, and there is no administrative power that can displace her, so long as this Deputy or Senator holds his seat.

"This is the unavoidable consequence of official 'efficiency,' not only in France but in most old countries of Europe. It is useless to add that whenever it is exercised in purely industrial enterprises, like tobacco or match manufacturing, the enterprise is doomed to failure, and the taxpayers have to pay a frightful amount to make up the deficit every year. Of course, every worker or employe, knowing that he cannot be dismissed and that he will receive his salary whatever he does, tries to do the least he can, has only one care, which is to avoid equally all initiative and all responsibility, and finds it both easier and safer to follow the old routine and red tape.

"These methods, which always have been and probably always will be in use as long as the régime allows politicians to intervene in commercial and purely administrative affairs, may explain the admiration and respect which is felt by foreigners whenever they first come into contact with American public services and when they witness the efficiency which is shown everywhere."

The Frenchman gives almost as much space to a discussion of our educational methods, and while his conclusions are not so complimentary, they are thoughtful, interesting, expressed with tact and courtesy, and only limitation of space prevents their reproduction here.

### \$500,000 School Program

Augusta, Ga.—The city of Augusta and Richmond County vote November 6 on a \$500,000 issue of 4½ per cent bonds for constructing school buildings. A tentative schedule includes the rebuilding of the Davidson School on a larger site; construction of Sixth Ward school on Baker avenue; rebuilding D'Antignac School on larger site; building King Mill school on larger area; convert Central school into administration building and for other uses; erect building for combined Rocks and Godwin schools; build Evans Academy on new site; build Gracewood school on larger site; erect new buildings for negro schools in the city and county and enlarge and improve other structures.



## LETTERS FROM OUR READERS

### Working to Establish Water Route Across Florida From Fort Myers to Fort Lauderdale

New River-Lake Okeechobee-Caloosahatchee Navigation Association  
Clewiston, Fla.

*Editor Manufacturers Record:*

I have noted with interest your frequent references to the development of inland waterways and especially canals in Florida. With the deepening of the Florida East Coast Canal and completion of the water route across Florida through Lake Okeechobee there will be made available for this rapidly developing section waterways connecting the interior with the several ports on the Atlantic.

This association is endeavoring to re-establish the water route between Fort Myers and Fort Lauderdale that was in use for several years with regular service.

In connection with the project for flood control at Lake Okeechobee, including a levee along the south shore of the lake, a canal will be built which will provide safe barge transportation at all times, connecting the channel from the Gulf of Mexico through the Caloosahatchee River and Three Mile Canal with the New River Canal to the Atlantic at Fort Lauderdale and the Palm Beach Canal to the Atlantic at West Palm Beach. The Palm Beach Canal is now available for barge transportation and the New River Canal can be made available by the construction of two locks. When this canal was formerly used there were two locks of wood construction, but these have since been destroyed.

In Senate Document No. 213, 70th Congress, second session, covering the report of Major-General Jadwin on the Caloosahatchee River and Lake Okeechobee drainage areas of Florida the General makes this statement:

"Together with the work already done by the Everglades Drainage District, the project now proposed will provide a navigable channel at least 6 feet deep from the Gulf to the Atlantic Ocean. In addition, there are several artificial drainage canals of shallow depth with locks at their point of junction with Lake Okeechobee. At the Atlantic end of the cross-state waterway, connection will be made with the canal along the east coast of Florida which in turn connects with the Atlantic Intracoastal waterway to the north. The cross-state waterway and its feeders will add many miles of navigable channels to our inland waterways."

I explain this situation so that you may be fully advised of the latest developments. An effort will be made to get the coming session of Congress to provide necessary appropriations to make available these waterways that are now so nearly completed and so essential to the early development of this great agricultural area.

Provision will also be made for protection to life and property from the waters of Lake Okeechobee in case of hurricanes, the recent Legislature having created the Florida Flood Control

Board with full power and authority to join with the Federal Government in construction of the necessary work.

F. L. WILLIAMSON, President.

### A New Selling Plan For Wholesalers

Myrtle, Miss.

*Editor Manufacturers Record:*

A wholesale grocery concern which has its headquarters in a certain large city, and maintains five branch houses in small cities in its territory, has gone on a cash basis, thereby increasing its total volume of business. It has also helped its customers to save money and has greatly expedited delivery of goods. This concern has wiped out much of its selling cost by taking its salesmen into partnership, so that they now pay their own expenses.

This wholesaler furnishes the groceries and the capital; while profits are split each month between each branch house manager, the two or three salesmen working from that branch, and the wholesaler. Each branch house is operated as a unit or separate business.

If there are two salesmen to a branch, at the end of the month one-fourth of all profits goes to the branch house manager, one-fourth to one salesman, one-fourth to the other, and one-fourth to the wholesale company. The total for one of the salesmen during a recent month was \$10,000—while the other salesman sold about \$12,000 worth.

Each salesman furnishes his own truck, paying for its upkeep, and bearing his own expenses. He travels surrounding rural territory accompanied by a man who does the heavy work of loading and unloading. It is estimated that the expense for each truck per month is about \$125. Each salesman hires his helper, an expense equaling about three-fourths of the monthly truck cost. Salesmen save a considerable amount in hotel bills and railroad fare, covering their territory twice a week. They can be at home every night, as their territory is not large.

Every day one or more loads of groceries, the order for which has been given a few days earlier, is taken out and delivered to small merchants, who pay cash. No credit business is done.

Each salesman is his own boss, a partner in the business, and takes an interest in the success of the enterprise the same as the branch manager or the wholesaler. Only staple groceries are handled, the feature of the firm's service being quick delivery at a cheap price for cash.

The only variation from the cash plan is when the merchant happens not to be in when the goods arrive. If the dealer is counted good pay, the salesman will leave his order and collect for it next trip. But if a salesman calls and delivers a bill of groceries and cannot collect, the amount comes out of his own pocket, a strong incentive toward making all collections 100 per cent good.

The wholesale firm buys its groceries in larger quantities for cash and at a lower price, giving country dealers the

benefit of savings. The innovation conceived by the president of the firm has been gradually perfected until practically no dissatisfaction is experienced. All those concerned find the plan profitable. The big idea is to let the company be of service to customers.

In view of the fact that chain store competition had come to be of serious concern to small-town retailers, it was felt that some method of going to the relief of the little dealer should be put into practice.

As is known, merchandising has changed to a large extent in the past five years as concerns the country and small-town retailer. He can no longer sit idly by waiting for business, he needs must be alive to changed and changing conditions and should use the latest methods in the operation of his store.

Would it not be possible to apply this new plan of wholesaling groceries to other lines also?

R. S. WEST.

### Foreigners Should Pay for Privilege of Enjoying American Markets

West Cummington, Mass.

*Editor Manufacturers Record:*

Foreigners who come here to sell must pay their full share of the tax burdens. There must be no free list and no absurdly inadequate duties. The United States must cease to be the greatest free-trade nation in the world, giving away more in free markets than any other. By spreading the tax burden over all the market instead of only on part, the tariff reduces the cost of living, and the people know it in a vague way from experience.

It must be made safe for an American boy or girl to learn to cut timber, or mine or farm or run a machine or build one, or build a ship, and not find the doors of employment closed so that some foreign producers can have the market, and it must be made safe for an American widow to have her all invested in a mine or farm or factory or lumber plant in this country.

It will be good business for the United States to rebate such taxes as may be paid by a farmer or other, for the privilege of enjoying the American market, when not so enjoyed through export, and support that farmer, as a future taxpayer and a present one. The only dignified way to pay it is in cash.

If it be wrong to tax imports of tin, sugar, leather, and what-not, as raising prices, it is wrong to tax American railroads as that raises freight rates and the price of bread, and it is wrong to tax American real estate as that raises storekeepers' rents and costs and prices; in short all taxes would be wrong. To make a complete fool of the United States, follow such alleged economists to the conclusion.

Presidents and Congressional Committees must not be asked and must not propose to throw away billions of value of the peoples' substance: we have had enough of that.

ANSON G. BETTS.

# IRON, STEEL AND METAL MARKET

## No Further Decline in Steel Production

Pittsburgh, October 28—[Special.]—Last week was practically the first week in a long while in which there was no unfavorable news as to steel. The reduced rate of production of the preceding week, about 80 per cent of total steel ingot capacity, seemed to be fully maintained and there was no news of additional steel price weakness. Curiously enough there was at the same time a big break in the stock market. The connection between the stock market and general business has always been an elusive affair, it being difficult to determine which is cause and which is effect if there is a relationship, also to guess whether the stock market is discounting something five minutes or five months ahead or is yielding to an influence already known by the general public.

In steel trade circles right along the talk has been that the expected decline in the stock market would not have much influence upon trade generally, for several reasons. Business is done on a hand to mouth basis nowadays and stocks of materials, parts and products are not carried. The country's activities are more largely for current use rather than expansion as formerly. Some steel producers, however, have been disposed to except the automobile industry in this connection, believing that not a little of the exceptional automobile buying of the last year or so has been due to profits, assumed or in actual cash, in the stock market.

The automobile industry has had its big decrease and cannot curtail its steel purchases farther, being rather in line for an increase. Actual production of cars and trucks is now about two-thirds the average rate in the first half of this year and is below the rate at this date last year. Large plans are being made for January production but sales at that time will regulate the execution of the plans.

There is little decrease in steel consumption, comparing the present with the first half of the year, outside the automobile industry. Freight cars shops are getting a new lease on activity, rails are doing better, agricultural implement works, which have operated somewhat sluggishly since July 1, are speeding up, and the exceptional pace of fabricated structural steel lettings of the first eight months of the year has been moderately well sustained since September 1.

The annual rail buying movement is now considerably more than one-half

completed, a count of orders to date in the movement, which began mildly early in September, showing a total of 939,333 tons. This rail buying is an annual and routine affair. The feature of the buying this time is not the volume, for the same roads that have bought 940,000 tons now bought about 900,000 tons a year ago and about 925,000 tons two years ago. The feature is the earliness of the buying, this total having been reached one to two months earlier than in recent years. That is important to the steel companies making rails, as they are always looking for "winter rollings" to offset the seasonal decrease in some other steel lines.

There is much freight car inquiry in the market but the only buying reported in the week is 1000 cars by the Pennsylvania, which raises the 18,650 cars reported a week ago to 19,650 cars as the total of the month to date. That is just about double the rate of freight car production since May 1.

No further declines in finished steel prices are reported, except that Chicago now reports a dollar a ton decline in bars, shapes and plates to 2.00c, Chicago, but that merely puts the market in line with the 1.90c, Pittsburgh figure long ruling. Wire mills have announced new nail prices, at \$2.40 and \$2.50 according to the size of the jobber, making a nominal decline of five cents a keg but really only recognizing a market already existing.

The Pittsburgh district scrap market has been a shade less dull, while prices hold better than might be expected, indicating the possibility of an upward turn within a few weeks.

## Zinc Declines—Tin at New Low Level—Copper Dull

New York, October 28—[Special.]—The principal development among the non-ferrous metals over the past week was the reduction by \$2 per ton in the price of slab zinc, or to 6.70c per pound, East St. Louis, the first price change in several months. The reduction was made imperative by the sharp declines on the London Metal Exchange, thereby making it more profitable for the European producers to ship their zinc to the United States than at home.

Meanwhile tin prices have sagged to new low levels over the past five years, spot Straits tin selling at 40¼c per pound as against 40c which was the extreme low price in 1924. Then on Wednesday came the tremendous recovery of £7 10s per ton on the London

Metal Exchange, first session; though at the second session there was a loss of £2 10s, which so unsettled the New York market that the net change for the day was nil. So the tin market was very erratic and only on one or two days of the week was actual tin purchased freely.

The copper market has continued extremely dull. Producers maintained the price of 18c, which has prevailed since April, though dealers and other second-hands were willing to sell at ¼c per pound less, meeting with but little buying response. Lead prices held steady though the market seemed on the point of declining on a few occasions when London prices dipped.

The sharp breaks on the New York Stock Exchange of course had considerable effect on the metals, especially since the world headquarters for the metal markets is located under the shadow of the exchange, so to speak. The declines in stocks made many wonder whether fundamental business conditions are sound, despite the assurance of many industrial and financial leaders that all is right in the business world.

One of the best helps to copper sentiment has been the optimistic reports of third quarter sales by the leading makers of electrical equipment, these sales having increased by 25 to 35 per cent over those of second quarter. These manufacturers are the principal users of copper wire, the form of copper which has enjoyed the most brisk consumption this year. In fact, 76 per cent of the gain in domestic consumption of copper this year has been in the form of wire bars, the raw material from which copper wire is made. Shipments of wire bars have been 29 per cent greater than over the corresponding period of last year.

Announcement of the electrification of the Pennsylvania Railroad from New York to Washington calls attention to the large consumption of copper in such projects these days. Such electrification means more agreeable travel for passengers, and other roads will undoubtedly move in the same direction, to meet the competition among carriers.

There has been no important change among the minor metals. Quicksilver prices have sagged 50c per flask to \$124 because of the accumulating supplies in Europe. Silver is low at 49½c to 50c per ounce. Threats of lessened shipments of antimony out of China have not strengthened prices in that metal.

The steel trade journals present a more optimistic picture of that industry,



believing that the valley point of the year has been reached. Purchasing of steel is improving from all chief consuming lines except the automobile industry.

Export sales of copper so far this month have been about 22,000 tons, which is a very poor total. However, it does not show up so badly when is recalled the unusually brisk business of that nature early in September. Producers are still convinced that much red metal must yet be bought for delivery this year, since it is believed that on the last buying movement consumers did not cover their requirements beyond November 15. Custom smelters are being allowed to book the major part of the going business since they must make sales daily to offset their intake of ore, having no machinery for storing copper to await a favorable market.

The recent decline in tin prices was one of the major drops of modern tin history. The so-called "tin group," which was formed at London to stabilize prices and attempt to regulate production, apparently tried to do nothing to stem the tide of the declines. Perhaps they are willing to let the market take its course, hoping that low prices will automatically bring about a curtailment of production. Now that the Dutch rubber interests have agreed to combine with the British in controlling rubber production and markets, there is some hope that they will also join the British in tin operations. Stocks of tin in British warehouses declined slightly during the past week because of shipments to the United States, but on the whole the supplies are excessive.

Though the price of prime western slab zinc has been reduced, the quotation of ore is unchanged at \$44 per ton. It is felt that one of the two must change to meet the other. Zinc sales so far in October have exceeded those throughout September, yet business is quiet on the surface. Demand for lead has been light, but conditions are in a healthful state.

### Steady Movement of Pig Iron

Birmingham, Ala., October 28—[Special.]—Southern pig iron will continue moving actively from furnace yards through the remainder of the year on contracts in hand and the requirements in sight for home consumers. Low freight rates made by railroads and steamship lines to Atlantic coast points and to the Middle West, into the St. Louis territory in particular, will continue for 60 days and longer. Indications point to a better demand on the turn of the year not only in the home territory but elsewhere. Sales are being

made for delivery during the fourth quarter on the base of \$14.50, No. 2 foundry in the home field and \$14 in the competitive sections, with reports still current of concessions on the latter price.

First intimation of books being opened for first quarter of next year developed information of an advance of 50 cents to \$1 on the iron price base. Statement is reiterated that one or two companies will have clear yards and there will have been a material reduction of surplus stock with others; in fact, the iron on hand will not be as noticeable as it has been.

Melt in home territory is easing off but slowly in comparison to the slowing down of demand for some of the products where iron is the predominating raw material. The steady operation of shops will see a brief lull this winter in some of the prominent lines. Next year, the West and Northwest will be profitable territory in cast iron pipe. Birmingham shops are prepared for an active market. Price base on pipe is still given at \$37 to \$38, six inches and over sizes. The present dullness includes soil as well as pressure pipe.

Machine shops and foundries report fair activity. Steel mill operations are estimated at from 70 to 75 per cent capacity. Practically all the open hearth

furnaces are in operation; the rail mill is producing. Demand for bar and plate is strong but there has been some easing off in other shapes. Fabricating shops are active with new business coming in, small tonnages being stipulated. Prospects are bright as to structural steel, several specifications being reported as probable in the near future.

The coal mining situation is holding its own, domestic coal demand improving with colder weather conditions. Steam coal requirements are slightly better, with the larger consumers, the railroads, feeling a small increase in traffic. Coke trade is steady with production healthy and shipments active. Scrap iron and steel is quiet.

Pig iron and iron and steel scrap quotations are as follows:

#### PIG IRON.

No. 2 foundry, 1.75 to 2.25 per cent silicon, f. o. b. furnaces, \$14.00 to \$14.50; No. 1 foundry, 2.25 to 2.75 per cent silicon, \$14.50 to \$15.00; iron of 2.75 to 3.25 per cent silicon, \$15.00 to \$15.50; iron of 3.25 to 3.75 per cent silicon, \$15.50 to \$16.00.

#### OLD MATERIAL.

|                              |                    |
|------------------------------|--------------------|
| Old steel axles .....        | \$17.00 to \$18.00 |
| Old iron axles .....         | 17.00 to 18.00     |
| Old steel rails .....        | 13.00 to 14.00     |
| Heavy melting steel .....    | 10.50 to 13.50     |
| No. 1 cast .....             | 13.00 to 14.00     |
| Stove plate .....            | 12.50 to 13.00     |
| No. 1 railroad wrought ..... | 10.00 to 11.00     |
| Old car wheels .....         | 11.00 to 12.00     |
| Old tramcar wheels .....     | 12.00 to 13.00     |
| Machine shop turnings .....  | 7.00 to 8.00       |
| Cast-iron borings .....      | 7.00 to 8.00       |
| Cast-iron borings (chem.) .. | 13.00 to 13.50     |

### \$3,000,000 POWER PROJECT

#### Virginia Public Service Company Plans Dam on Jackson River in Alleghany County

The Virginia Public Service Co., Charlottesville, Va., has purchased acreage in Bath and Alleghany counties, Virginia, for the development of a \$3,000,000 power project. The proposed dam will be in Alleghany County across Jackson River and will create a lake to cover approximately 12,000 acres. Plans for the project are being prepared by Charles B. Hawley & Company, Washington, D. C., and geological work is being done by Wilbur Nelson, of the University of Virginia. Both the engineering and geological surveys are practically complete and drawings and specifications for the plant are in progress.

This project is one of three contemplated units for the development of hydro-electric resources on the upper tributaries of the James River and constitutes one unit of a development program estimated to cover a period of four or five years. The plant site will be at Natural Well, about 10 miles from Covington, where the Industrial Rayon Corporation, of Cleveland, Ohio, has built the first unit of an \$8,000,000 rayon plant.

### Southwest Louisiana Wants Gas

Lafayette, La.—To advance efforts of Southwest Louisiana to secure natural gas from the Monroe fields, a meeting will be held at the courthouse here on November 5, according to an announcement by the Lafayette Parish Chamber of Commerce, F. V. Mouton, secretary-manager. The meeting is being sponsored by the mayors of Lafayette, De Ridder, Morgan City, Welsh, Marksville, Eunice, Abbeville, Crowley, De Quincey, Opelousas, Rayne, Baldwin, New Iberia and Jennings.

### To Electrify Washington-New York Line

With arrangements completed for carrying out its project to electrify and improve the Baltimore district at a cost of \$22,000,000, the Pennsylvania Railroad announces the way clear for the electrification of its entire line from Washington to New York. Part of this work has already been done, especially in the vicinity of Philadelphia and New York. The Baltimore project will include the construction of tunnels, a new Calvert station, trackage and freight sheds, with general electrification.

# HIGHWAYS AND MOTOR TRANSPORT

## Counties Building Higher Type Highways

Survey Discloses Percentage of Surfaced Roads Steadily Increasing

Reports obtained by the Bureau of Public Roads, U. S. Department of Agriculture, from authorities of selected counties indicate a tendency toward a higher type of local and county road construction in the United States. The reports indicate that there was improved in 1928 in the entire United States, exclusive of State roads, a total of 45,531 miles of local and county roads, of which 29,888 or 66 per cent were surfaced, and 15,643, or 34 per cent were graded and drained earth roads. In 1927, the estimated mileage improved was 59,732 miles, of which 33,852 or 57 per cent was surfaced and 25,880 miles or 43 per cent was graded and drained. In 1926, the total mileage improved was 89,026, of which 36,027 miles, or 41 per cent, was surfaced, and 52,999 miles, or 59 per cent, was graded and drained.

The surfaced roads constructed in 1928, indicated as 29,888 miles, are made up of the following types of pavement: Sand-clay and topsoil, 3518 miles; gravel, 20,221; waterbound macadam, 3001; bituminous macadam, 1631; sheet asphalt, 83; bituminous concrete, 267; Portland cement concrete, 1145; and 22 miles of brick and other block pavements.

At the end of 1928 the estimated total length of county road systems was 2,700,839 miles, according to the figures given to the bureau. Of this total, 432,999 miles are surfaced, with the following types of pavement: 74,562 miles of sand-clay and topsoil, 277,797 miles of gravel, 46,454 miles of waterbound macadam, 14,953 miles of bituminous macadam, 1472 miles of sheet asphalt, 3763 miles of bituminous concrete, 12,317 miles of Portland cement concrete, and 1681 miles of brick and other block type pavements.

The reports from the selected counties indicate a total expenditure for the entire United States in 1928 of \$282,314,715 for county and local road and bridge construction, \$259,753,188 for maintenance, \$79,806,915 for interest on bonds and outstanding notes, and \$37,347,326 for miscellaneous expense. They all indicate that the counties paid out \$103,281,707 in retirement of the principal of outstanding bonds and notes, and transferred \$69,638,156 to the States for work on State roads, making a grand total disbursement of \$832,142,007 and leaving an unexpended balance of \$176,082,089 for all counties in all States.

At the beginning of 1928, the reports

indicate, the counties had an estimated total of \$1,008,224,096 available funds for local road and bridge construction, this consisting of an unexpended balance of \$172,897,145 carried over from the previous year and a total income of \$835,326,951. Of the total income, motor vehicle license fees and gasoline tax receipts, \$50,322,055 and \$53,778,852 respectively, contribute 12 per cent, receipts from local bond sales of \$150,222,357 represent nearly 18 per cent, and the local road tax of \$416,812,566 is 49 per cent. Of the total estimated income for 1927 of \$840,613,923, motor vehicle license fees and gasoline tax receipts, \$40,239,856 and \$46,860,509 respectively, represented 10 per cent, sales of bonds (\$181,080,953) 21½ per cent, and local road taxes (\$405,219,774) 48 per cent. In 1926, motor vehicle license fees and gasoline tax receipts, \$37,861,018 and \$39,733,227 respectively, contributed 10 per cent of the total income of \$775,423,682, sales of local bonds (\$168,575,423) more than 21½ per cent, and local road taxes (\$357,263,356) 46 per cent.

### \$300,000 Georgia Road Contracts

Atlanta, Ga.—Road contracts approximating \$300,000 have been awarded by the State Highway Commission:

**Brooks County**—6.613 miles of concrete on Quitman-Thomasville road, Hall & Bowen, Macon, Ga., contractors, at \$134,340.

**Gwinnette County**—1.988 miles of top soil and bridge on Stone Mountain-Monroe highway, J. W. Trammell, Luthersville, Ga., \$33,733.

**Houston County**—0.75 mile of lime rock surfacing, Campbell Construction Co., Columbus, Ga., \$16,634.

**Richmond County (two projects)**—two bridges and culvert on Augusta-Louisville highway, W. J. Tidwell, Douglasville, Ga., \$12,379; bridge and culvert on Augusta-Thomson highway, E. M. Williams, Montgomery, Ala., \$4029.

**Troup County**—4.256 miles of concrete on LaGrange-Chipley highway, J. B. McCrary Engineering Corporation, Atlanta, \$87,890.

### \$21,309,000 Expended on Tennessee Roads

Nashville, Tenn.—According to a report of Commissioner R. H. Baker to Governor Henry H. Horton, a total of \$21,309,000 was expended on Tennessee highways from January 1, 1929, to September 30, 1929, inclusive. Road contracts were awarded by the State Highway Department to the amount of \$19,348,760, while further expenditures were made under the direction of the department for major and minor improve-

ments. Exclusive of the state toll bridge system, \$22,172,000 represents the total to be expended this year in highway improvements, the biggest program in the history of the State. There is now available \$6,364,000 in cash with \$889,000 in Federal aid funds for unfinished projects.

### Main Street of the Americas

The Pan-American Highway Association, James W. Turner, Paintsville, Ky., president, is distributing a folder presenting a route map of the United States division of the proposed Pan-American Highway—the "Main Street of the Americas"—designed to connect the capitals of all countries from Canada to Argentina. The United States division of the highway, extending from Rouses Point, N. Y., to Laredo, Tex., will connect with the Mexican division.

### Automobile Operation Cost

In a recent bulletin pointing out the savings made to the individual owner of automobiles through the existence and use of good roads, the American Road Builders Association said:

"The average relative gasoline consumption, determined from reported engine tests and actual measurements on the road, showed that where a vehicle will travel 15 miles to the gallon on a high type surface, it will require 1.2 gallons of gasoline on the intermediate type and 1.47 gallons on the low type road surface for the same distance.

"Among the various items of operating cost, road condition is shown to have no effect on license, garage, interest and insurance. Increase in cost of maintenance and in depreciation of the automobile as the type of road becomes poorer is in somewhat the same ratio as increase in gasoline consumption. In cost of tires and tubes comes the greatest increase: it is estimated that where \$1 is expended for this item on high type roads, the cost is more than doubled on intermediate type roads, or \$2.22, and almost triple on low type roads, or \$2.90.

"The division of cost items on an imaginary 'average' automobile based on annual mileage of 11,000, is shown thus:

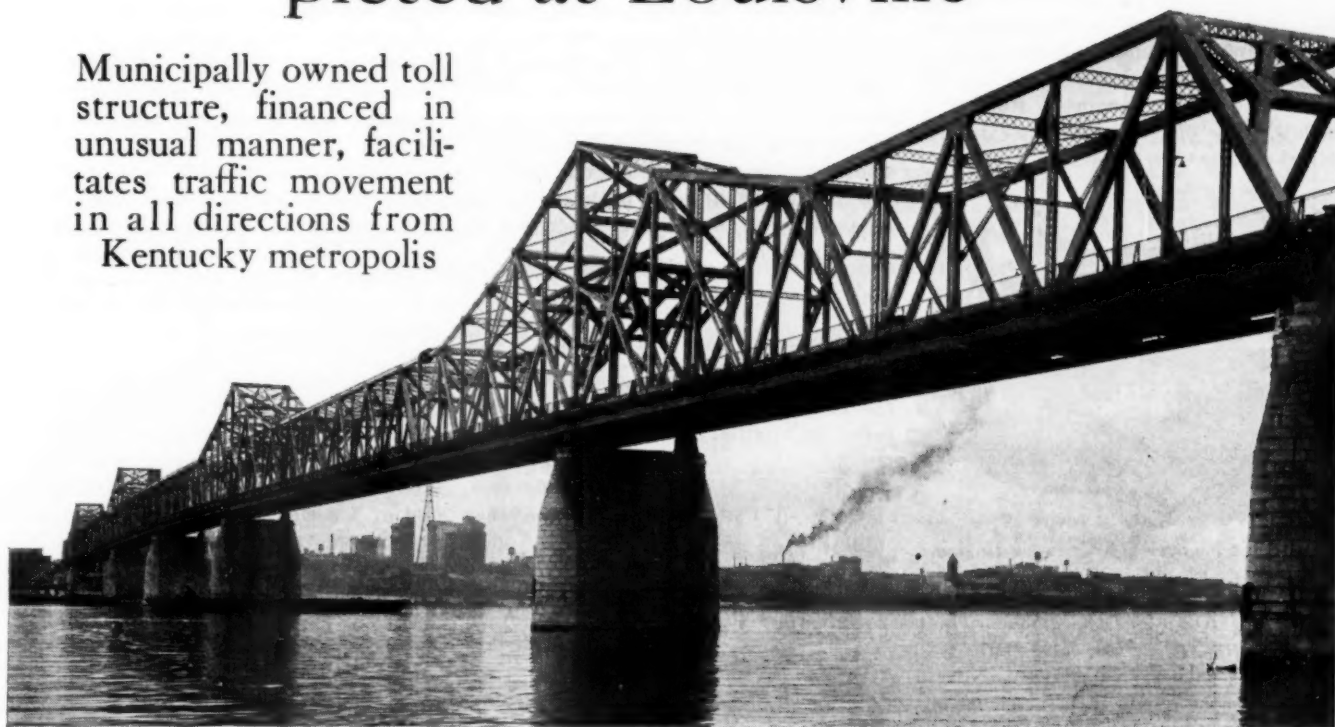
| Item of Cost                           | Cents per mile |
|--|----------------|
| Gasoline .....                         | 1.31           |
| Oil .....                              | 0.22           |
| Tires and tubes .....                  | 0.64           |
| Maintenance .....                      | 1.72           |
| Depreciation .....                     | 1.30           |
| License .....                          | 0.24           |
| Garage at \$4 per month .....          | 0.44           |
| Interest at 6% .....                   | 0.36           |
| Insurance (fire, theft, tornado) ..... | 0.21           |
| Total cents per mile .....             | 6.43           |

"The saving shown in operation of such average automobile due to road improvement, where low type roads are changed to intermediate type, is 1.07 cents per mile; where intermediate type is changed to high type, 0.99 cents per mile, and where low type is changed to high type, 2.06 cents per mile."



# \$5,000,000 Highway Bridge Completed at Louisville

Municipally owned toll structure, financed in unusual manner, facilitates traffic movement in all directions from Kentucky metropolis



The Louisville Municipal Bridge was recently completed over the Ohio River, at an expenditure of \$5,000,000, to connect the downtown section of Louisville, with the State of Indiana at Jeffersonville. Traffic from all directions will now be afforded a means of immediate approach to Kentucky's largest city. The structure provides an entrance into Louisville and Kentucky for southbound traffic from Chicago, Detroit, Milwaukee and other northern centers, as well as for eastbound and southbound traffic from St. Louis and the West, for westbound traffic from Chicago, Detroit, Milwaukee and other northern centers, as well as for east-bound and south-bound traffic from St. Louis and the West, for west-bound and south-bound traffic from Cincinnati, Cleveland, Washington, New York and the East, and for northbound and eastbound traffic from Florida and the South.

The new structure is a toll project, financing of which is said to be unusual in municipal circles. Bonds were issued by the City of Louisville through a bridge commission as liens against the property, these obligations to be payable from the tolls collected and other revenues derived from operation of the bridge. Upon retirement of these bonds the structure will become the property of the city and will be made a toll-free thoroughfare. It is estimated from 10 to 15 years will suffice for retiring all of the bonds.

The total length of the project is 5800 feet. The bridge proper totals 3800 feet, the Louisville approach 800 feet, and the Jeffersonville approach 1200 feet. A 38-foot roadway to provide space for four lanes of traffic with 5-foot sidewalks on each side runs this entire distance. The main bridge spans clear the normal level of the river by 81 feet, their peaks towering 181 feet above that level. The materials required in constructing this superstructure were: 24,977,000 pounds of structural steel, 344,000 pounds of reinforcing steel, 274,000 lineal feet of roadway reinforcing trusses, 15,800 square yards of concrete roadway, 6300 square yards of concrete sidewalks, and 19,000 board feet of timber in the inspection walk.

In building the piers 23,400 cubic yards of concrete, 4100 cubic yards of masonry, 33,775 pounds of structural steel, and 9962 pounds of reinforcing steel were used. Estimators on this item were requested to submit bids on both limestone and granite piers, the contract finally being awarded at \$602,000 on the latter basis as was previously recommended by the engineers.

The two approaches involved in their construction 3753 cubic yards of concrete, 3,154,000 pounds of structural steel, 335,920 pounds of reinforcing steel, 145,757 lineal feet of roadway reinforcing trusses, 17,675 square yards of concrete roadway, 4800 square yards of concrete sidewalks, 16,846 lineal feet of

concrete piles, 1980 cubic yards of limestone masonry, and 5400 lineal feet of granite curbs.

Lights on the structure number 106, 82 of these being on the bridge proper.

The Louisville Bridge Commission was in charge of construction and will be in control of the new structure. This commission is a municipal corporate instrumentality created by the General Assembly of Kentucky and its members are: William Black, Chairman; Fred Forcht, Vice-Chairman; Tom B. Duncan, George M. Eady, and Mayor William B. Harrison, ex-officio. E. H. West is secretary and treasurer. Ralph Modjeski and Frank M. Masters of Harrisburg, Pa., were engineers to the commission.

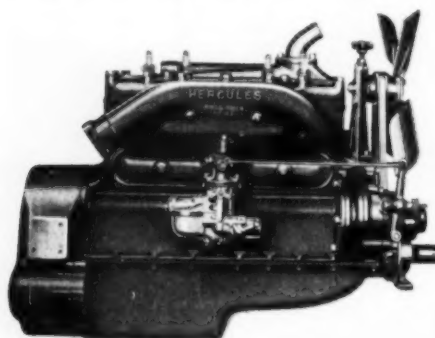
Harris, Forbes & Co., New York, and Stranahan, Harris & Otis, Toledo, Ohio, headed the banking syndicate which offered the bonds.

Contractors for the piers were the Vang Construction Co., Pittsburgh, Pa.; for the superstructure, the American Bridge Co., Pittsburgh and New York, and for the approaches, the Henry Bickel Co., Louisville. The latter company also constructed the administration building and toll houses. F. A. Clegg & Co., Louisville, were contractors for the lighting facilities. The Stone Mountain Granite Corp., Stone Mountain, Ga., and H. E. Fletcher Co. furnished the granite. Cement was purchased from the Louisville Cement Co. Local firms also furnished the necessary sand and gravel.

## NEW AND IMPROVED EQUIPMENT

### Heavy Duty Engines

To meet a growing demand for heavy duty power in the lower horsepower ranges, the Hercules Motors Corporation, Canton, O., has developed the OO series of 4-cylinder engines. Built in 3 models, these engines embody characteristics of the Hercules OX series, of



Hercules OO Series 4 Cylinder Engine

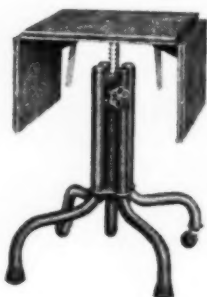
which they are smaller counterparts. The OOA, OOB and OOC models, which comprise the OO series, have bores  $3\frac{1}{2}$ ,  $3\frac{3}{4}$  and 4 inches, respectively, with a common stroke of  $4\frac{1}{2}$  inches. All models develop maximum torque at 1000 r.p.m. and peak at 2200 r.p.m. Special consideration has been given to valve cooling, the water being conducted from the water pump directly across and through the block and distributed into a passage immediately between the valves and cylinders, the former being entirely surrounded by water. The water pump is of the efficient high pressure centrifugal type of improved design to provide ample circulation for engine cooling at all speeds, with a pulley on the front end of the crank shaft driving the fan.

The motor has full force feed lubrication, the pump is beneath the center main bearing and is driven from the camshaft by spiral gears. Crank case ventilation is provided by a breather cap located directly over the accessory drive shaft, this opening also serving for filling the oil sump. As in all Hercules engines, the crank case is cast integral with the block. The crankshaft is 2 inches in diameter at the three main bearings, of which the front is  $2\frac{3}{16}$  inches long, the center  $2\frac{1}{4}$  inches long, and the rear  $2\frac{5}{8}$  inches long. Connecting rod bearings are 2 inches in diameter and  $1\frac{1}{2}$  inches long. Pistons are of cast iron and carry 3 rings above the pin, the lower of these rings being of the oil regulating type. The camshaft is on the right side, supported by 4 bearings 2 inches in diameter, the front bearing being 2 inches long and the other three  $1\frac{5}{16}$  inches in length. Engines are of the L-head arrangement with valves

of the usual 45-degree set type. Exhaust valves have a clear diameter of  $1\frac{1}{4}$  inches and the intakes of  $1\frac{1}{2}$  inches. The governor is of special Hercules design, permitting close speed regulation, and is adjusted by means of an accessible nut. The flywheel housing is separate from the crankcase with provision for mounting an electric starter and the manifold may be arranged to take either a 1-inch or  $1\frac{1}{4}$ -inch S.A.E. size carburetor.

### Handstands As Auxiliary Desks

Harter Handstands, manufactured by the Harter Corporation, Sturgis, Mich., serve as auxiliary desks or stands for



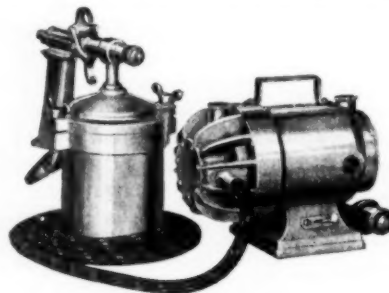
Has Drop Leaves

typewriters, calculating machines, adding machines and other office equipment. The stands are available in grained wood tops with 5-ply quarter sawed oak, or mahogany or walnut finish. The base is of cold rolled steel tubing finished in

olive green enamel and equipped with vertical adjustment features to meet individual requirements in height. Mobility is provided by the use of casters on the two front feet, while the rear feet are equipped with rubber tips for stability.

### Electric Paint Sprayer

A new electric paint spray machine known as the tornado portable electric paint sprayer, has been placed on the market by the Breuer Electric Manufacturing Co., Chicago. This sprayer is of



Portable Paint Machine

the rotary compressor type, built of aluminum castings and equipped with a  $\frac{1}{2}$ -horsepower General Electric Universal motor to develop a pressure of over 35 pounds, the compressor unit weighing 7

pounds. The spray gun is of unique design, equipped with a tip for fan spray and one for narrow spray, covering an area of 2 to 14 inches. A handy adjusting screw controls the amount of paint used, the spray gun weighing 2 pounds. Equipment on the machine includes a quart container, 2 tips, 20 feet of reinforced rubber-covered cord and 8 feet of rubber web-covered hose. The machine is designed for touch-up work, shading and light finishing and re-finishing jobs, as well as semi-production and maintenance of industrial painting.

### Cotton Picking Machines

H. N. Berry is the inventor of an automatic cotton picking machine manufactured by the Cotton Harvester Corporation of America, and not the inventor of the machine being manufactured by the American Cottonpicker Corporation, New York, as erroneously reported in the MANUFACTURERS RECORD of October 17. Charles R. Berry, Greenville, Miss., advises in a telegram to this paper. Philip S. Cole, vice-president of the American Cottonpicker Corporation, also writes to advise that the machine it is producing is not the invention of H. N. Berry.

### Progress on \$6,500,000 Drainage System

Regarding progress on the extension of the New Orleans drainage system, at a cost of approximately \$6,500,000, George G. Earl, general superintendent of the New Orleans Sewerage & Water Board, advises that four of the 14 screw pumps to be installed have nearly been completed and will be installed at station No. 6 early in 1930. Three other pumps are being built for installation at station No. 1 next spring and others will follow up to a total of at least 12 for installation at other pumping stations. Pump installations will extend through the two years 1930 and 1931, as the stations may be provided with necessary foundations and building extensions. Station No. 6, the first installation, will contain three 300 cubic feet second centrifugal pumps installed prior to 1903; two 700 cubic feet second capacity, 12-foot screw pumps installed in 1916, and four 1000 cubic feet second capacity, 14-foot screw pumps of the present installation, or a total of 6600 cubic feet second of storm drainage capacity, equal to approximately 4,400,000 gallons daily. The present extension of this station will bring it to a length of 292 feet.



# CONSTRUCTION DEPARTMENT

## and

# NEW ENTERPRISES

Covering the initial announcements of new undertakings with additional information about enterprises previously mentioned. The date at the end of an item indicates preliminary facts were given in a previous issue.

When writing to a new firm or corporation the name of at least one of the incorporators should be placed on the envelope to expedite its handling by the local postoffice. Mail may be delayed unless complete address is given.

Building and Construction Proposed and Contracts Awarded; Manufacturing, Mining, Power, and Land Developments; Public Works; Transportation; Communication; Financial Enterprises; New Business Opportunities Reported in the Sixteen Southern States.

The Daily Bulletin of the Manufacturers Record gives each business day advance news published in this weekly review. It is invaluable to those requiring prompt information. Subscription price \$40.00 a year.

### Airports, Airplane Plants, Etc.

D. C., Washington — "Amac" Air Mail Apparatus Corp. of America, Inc., capital \$1,000,000, incorporated; F. C. Roberts, 1516 Ridge Place, S. E.

Fla., Tampa—City votes Nov. 27 on \$750,000 bonds for municipal airport and seaplane base. 10-17

Ga., Savannah—City acquired 103 acres north of present municipal airport. 9-26

La., Lafayette—City, J. Gilbert St. Julian, Mayor, completing purchase of 150 acres for airport; soon begin leveling, filling, clearing site, etc. 8-8

La., New Orleans—Navy Dept. authorized to establish landing facilities for naval land planes and seaplanes at naval station; for present, work planned consists only of provision for landing field, work to be done by government force; plans to be prepared by Bureau of Yards and Docks, Navy Dept., Washington, D. C., for structures. 10-24

La., Patterson — Transcontinental Air Transport, Inc., 1271 Broadway, New York, plans landing field, Avery Island.

Md., Baltimore—Maryland & Delaware Navigation & Aeroplane Corp., James R. Pratt, Pres., 100 Milk St., Boston, Mass., acquired Coastal Airways, Inc., Guelph, Ont.; acquired concern operated airline during summer between New York City, Albany, N. Y., and Saratoga, N. Y.; E. De Anglis to become vice-president in charge of flying operations of purchasing concern; plan acquiring additional aviation corporations; will operate following lines: New York to Albany, Albany to Saratoga, Albany to Boston, Mass., Boston to New York, New York to Baltimore, New York to Washington, D. C., Baltimore to Atlantic City, N. J., Washington to Norfolk, Va., Washington to Miami, Fla., last in cooperation with a railroad; establish executive offices here.

Md., Cumberland—Curtiss Airports Corp., 20 Pine St., New York, P. Y. K. Howat, 1041 St. Paul St., Baltimore, plans erecting hangars and installing equipment for refueling airplanes, etc.

Mo., Springfield—City, C. A. Dickerson, Clk., E. S. Pauley, Member Airport Comm., 315 St. Louis Ave., let contract to W. W. Johnson, 301 College St., for \$25,000 administration building, municipal airport; Eugene F. Johnson, Archt., McDaniel Bldg. 9-5

Okl., Okay—Okay Airplane Co., Horace A. Andrews, Gen. Mgr., establishing landing field at plant, especially for use of large tri-motored planes; equip for all kinds of flying, and with reserving station.

Okl., Sapulpa—North American Air Lines, Inc., Hunt Bldg., W. L. Ives, Tulsa, plans airport, including hangars, etc.; 100-acre tract.

Tenn., Knoxville—City Council authorized City Mgr. to acquire Bearden Field as municipal airport; plans acquiring Tobler track adjoining, filling in roadway and joining fields; improvement under way; install lighting system. 10-24

Tenn., Nashville—City, Hilary E. House, Mayor, City Hall, engaged W. M. Monhohan, of Ford, Bacon & Davis, Inc., 39 Broadway,

New York, to make survey of aviation sites near city; W. W. Southgate, City Engr. 7-18

Tex., Corpus Christi—City plans voting on \$15,000 airport improvement bonds.

Tex., El Paso—City Council plans acquiring 60 acres additional to give airport A1A rating. 10-10

Tex., Dallas—Curtiss Flying Service, Inc., 27-29 W. 57th St., New York, Stone & Webster Engineering Corp., Agt., 49 Milk St., Boston, Mass., let contract to J. F. Russell Construction Corp., Brook and Bloom St., Louisville, Ky., for hangar and administration building at Dalworth Field; hangar, 100x120 ft., 20-ft. lean-to on each side extending full length of building, providing for offices, shops, class rooms and waiting room; face brick, stucco; sodding and roadways not let; A. J. Lichty, Resident Engr., Grand Prairie. 8-29

Tex., Houston—Curtiss Flying Service, Inc., 27-29 W. 57th St., New York, let contract to H. F. Lindley, for grading and leveling airport, Main St. Rd.; H. C. Gaffney, Supervisor of Construction; Stone & Webster Engineering Corp., Engr., 120 Broadway, New York. 10-24

Tex., San Antonio—Constructing Quartermaster, Duncan Field, erect large machine shop for general airplane motor repair work. 10-17

Tex., Sherman—Oran V. Small plans leasing municipal airport; erect galvanized iron hangar to accommodate 2 planes.

Va., Martinsville—Rives S. Brown preparing plans for 150-acre airport.

W. Va., Clarksburg—Clarksburg Airways, Inc., capital \$25,000, chartered; J. M. Carskadon, 159 E. Main St.; develop Patton Field. 10-24

### Bridges, Culverts and Viaducts

#### Proposed Construction

Ala., Mobile — City, Harry T. Hartwell, Mayor, received low bid from G. A. Muths & Son, \$15,000, for rein. conc. culvert at Little Stickney Hollow; Wright Smith, City Engr. 10-17

Ark., Calion—War Dept., Washington, D. C., approved revised plans Arkansas State Highway Comm., Little Rock, for bridge across Ouachita River near Calion; revised plans provide location of bridge 1000 ft. farther down stream than originally planned; vertical clearance 50 ft. above high water mark instead of 40 ft.

Ark., Lake City—War Dept., Washington, D. C., approved plans Jonesboro, Lake City and Eastern R. R. Co., F. G. Jonah, Ch. Engr., St. Louis, for bridge across Lake St. Francis, Lake City, to have greater vertical clearance than any other bridge across sunk lands except Holly Island Bridge, 43 mi. above Lake City.

Ark., Ozark—War Dept., Washington, D. C., approved plans State Highway Comm., Little Rock, for bridge across Arkansas River at Ozark.

Florida—Alfred I. duPont interests, Edward Ball, V.-P., Almour Securities, Inc., Alfred I. duPont, Pres., both Barnett Bank Bldg., Jacksonville, plan constructing in near

future long bridge over East Pass between upper end of Choctawhatchee peninsula and Camp Walton; forming link in Gulf Coast Highway.

Fla., Camp Walton—War Dept., Washington, D. C., approved plans Gulf Coast Properties, Inc., Jacksonville, for bridge across Santa Rosa Sound near Camp Walton, Okaloosa County.

Fla., Fernandina—State Road Dept., Tallahassee, considering \$500,000 bridge over Nassau River; Gordon Perkins, Jacksonville, member of State Road Dept.

Ky., Carrollton — State Highway Comm., Frankfort, reported, considering plans for bridge across Ohio River, Carrollton, cost \$1,418,000; plans selling bonds.

La., Oberlin—Louisiana Highway Comm., Baton Rouge, plans Calcasieu River Bridge on Oberlin-DeRidder Highway, Allen Parish; replace old bridge; H. B. Henderlite, State Highway Engr.

Maryland—State Roads Comm., Baltimore, receives bids Nov. 12 for 3 bridges: Anne Arundel County—fabricate and erect all struct. steel, for super-structure of triple span through truss bridge, over Patapsco River, on Old Annapolis road; Westport to Glenburnie, Cont. AA-49; Wicomico County—fabrication and erection of struct. steel for superstructure of proposed steel girder bridge over tracks of N. Y. P. & N. R. R. Co., North Division St., Salisbury, Cont. WI-50-A; Prince Georges County—repair 31-ft. span rein. conc. girder bridge over Henson Creek, on road from D. C. line to Camp Springs, Cont. P-61; G. Clinton Uhl, Chmn.

Missouri—State Highway Comm. receives bids for 25 bridges. See Roads, Streets, Paving.

Miss., Holly Springs—Marshall County Bd. of Supvrs., J. T. Wade, Clk., receives bids Nov. 5 for 4 bridges: 260-ft. pile bridge across Coldwater River, Dist. No. 2; laying runners on 275-ft. bridge in Cayce Road Dist., Dist. No. 3; about 100-ft. pile bridge across Spring Creek near John Martin Place, Dist. No. 5; 40-ft. post trestle bridge near Poe Place, Dist. No. 5.

Miss., Indianola—Sunflower County Bd. of Supvrs., John W. Johnson, Clk., receives bids Nov. 4 for 5 bridges and fill: Bridge across Sunflower River about 2½ mi. south-east of Indianola; steel and conc. bridge across Gravel Bayou on Dailey Place, Dist. No. 1; 3 bridges on Doddsville-Adair road across mouth of Quiver River; fills at each end of Boyer Mill Bridge, etc.

Mo., Independence — See Roads, Streets, Paving.

N. C., Charlotte—City, R. W. Rigsby, Mgr., plans underpass under Southern Ry. tracks, on South College St.

S. C., Myrtle Beach — State Highway Comm., Columbia, completing plans for standard creosoted timbered bridge across Withers Swash, Route 49, George Washington Highway below Myrtle Beach.

Tex., Beeville — Bee County plans bridge building. See Financial News Columns. 10-24

Tex., Dallas—City, J. Waddy Tate, Mayor, the Northern Traction Co., and the Trinity River Levee Improvement Dist. Supvrs.

plan about 2,000-ft. viaduct across river channel, from levee to levee; City and Traction Co., plan underpass under tracks at east end of Jefferson Ave.

Tex., San Antonio—City, C. M. Chambers, Mayor, plans rein. conc. steel vehicular and railway bridge over San Antonio River, Martinez St., cost \$40,000; Hawley & Freese, Engrs., 303 Frost Bldg.

Tex., San Angelo—Tom Green County, J. T. Mathison, County Judge, and West Texas Utilities Co., plan bridge across Concho River at Seven Mile Crossing; engineers' plans completed. See Financial News Columns. 10-3

Tex., Waco—E. P. Arneson of Walton & Arneson Engineering Co., will make survey for proposed viaduct or underpass at railroad crossings; E. E. McAdams, City Mgr.

Virginia—State Highway Commission, Richmond, receives bids Nov. 7 for 6 bridges: Scott County—4 on Route 10 over Cove Creek; Cumberland County—75-ft. bridge over Willis River, Route 13; Wise County—78-ft. bridge over Powell River, Route 11; C. S. Mullen, Ch. Engr.

Va., Richmond—State Highway Comm. has received low bids for 2 bridges, Essex County—225-ft. bridge over Mount Landing Creek, near Tappanhanock, Route 38: Superstructure—27,745 lb. rein. steel; substructure, 9268 lin. ft. crossotied piles, J. S. Bowers, Whiteville, N. C., \$23,200; Campbell and Halifax Counties—867 ft. bridge over Staunton River, Brookneal, Route 18: Superstructure—174,445 lb. rein. steel; substructure, 61,415 lb. rein. steel. A. N. Campbell & Co., Inc., Peoples Natl Bank Bldg., Lynchburg, \$84,508. 10-10

W. Va., Charleston—City, Mayor Wertz, plans expending \$500,000 for undergrade crossings under railway lines; \$150,000, for bridge over Elk River at foot of Wyoming St.; H. L. Campbell, City Engr. See Financial News Columns.

W. Va., Deepwater—Virginia State Corp. Comm., Richmond, approves application of Virginian Ry. Co., A. M. Traugott, Ch. Engr., Norfolk, Va., for permission to connect with New York Central System by bridge over Kanawha River near Deepwater. 10-10

#### Contracts Awarded

Md., Salisbury—State Roads Comm., Baltimore, let contract to P. D. Phillips & Bros., Salisbury, \$42,788, for grade crossing over Pennsylvania R. R. tracks at North Division St., Salisbury; G. Clinton Uhl, Chmn.

Miss., Biloxi—International Steel and Iron Co., Evansville, Ind., has contract for steel, draw span and machinery for Biloxi Bay Bridge, Biloxi to Ocean Springs; Fuller Construction Co., Derman Bldg., Memphis, Tenn., contractors for construction. 7-26-1928

Tenn., Memphis—J. W. Jarrett has contract for conc. bridge on Summer Ave. over Cypress Creek; Will B. Fowler, City Engr.

Texas—State Highway Comm. let contracts for 6 bridges. See Roads, Streets, Paving.

Tex., Lubbock—City and Panhandle and Santa Fe Ry. System, G. W. Harris, Ch. Engr., Chicago, Ill., let contract to Panhandle Construction Co., Lubbock, \$200,000 for underpass.

Tex., San Marcos—Bart Moore, Inc., 2507 Smith-Young Tower, San Antonio, has contract for 100-ft. long, 40-ft. wide, rein. conc. bridge over San Marcos River on Austin Highway. 9-26

Tex., Wharton—Virginia Bridge & Iron Co., Roanoke, Va., has contract for 500 tons struct. steel, for Colorado River Bridge, Wharton. 10-3

W. Va., Charleston—Kanawha County Court may receive bids soon for white way of 36 lights on Kanawha River Bridge under construction at Patrick St.

#### Canning and Packing Plants

Fla., St. Augustine—G. Phil Maggioni, 401 W. Bay St., Savannah, Ga., reported, establish canning plant.

S. C., Allendale—P. J. Fulmer, reported, negotiating with Morristown, Tenn., company for establishment of canning plant.

#### Clayworking Plants

S. C., North Augusta—South Carolina Pottery, Mark Baynham, Proprietor, advises acquired factory site of 8 acres about 1 mile from Augusta, Ga., and will rebuild plant destroyed by flood waters; brick and metal; 100x250 ft.; install 2 kilns; manufacture stoneware products, flower pots. See Want

Section—Building Material and Equipment; Machinery and Supplies.

Va., Williamsburg—Williams Colonial Brick Co. incorporated; Robert Trimble, Jr.

#### Concrete and Cement Plants

Tex., Houston—Houston Concrete Pipe Co., capital \$20,000, incorporated; S. H. Walker, C. L. Kerr, 3416 Audubon Place; manufacture conc. sewer pipe; acquired site, Hutton, Lee and Pannell St.; now erect \$40,000 plant; frame and corrugated iron, conc. floor, 50x100 ft.; produce 50 tons daily, including all sizes; plans complete.

#### Cotton Compresses and Gins

La., Ferriday—Ferriday Gin Co., Inc., capital \$20,000, incorporated; B. C. Crothers, Ferriday; Max Rothschild, Vidalia.

Miss., Drew—Federal Compress & Warehouse Co., Cotton Exchange Bldg., Little Rock, Ark., reported, plans additional compress; 200x300 ft.; capacity 5000 bales.

Miss., Greenville—Greenville Gin, Walter Blake, Mgr., reported, rebuild burned gin on O'Hea & DeLesseppe St.

Miss., Hernando—Banks & Co., reported, rebuild burned gin.

Miss., Holly Springs—Federal Compress & Warehouse Co., Cotton Exchange Bldg., Little Rock, Ark., reported, construct additional storage building, 200x300 ft., capacity 500 bales.

Tenn., Atoka—Atoka Gin Co. incorporated; R. S. McDill, W. W. Templeton.

Tex., Houston—Houston Compress Co., Cotton Exchange Bldg., reported, let contract to Don Hall, Cotton Exchange Bldg., for \$50,000 addition to warehouse; steel construction; install sprinkler system; additional trackage and trucking facilities; R. J. Cummins, Constr. Engrs., Bankers Mortgage Bldg.

Tex., Idalen—Farmers Cotton Gin Assn., capital \$20,000, incorporated; J. M. and J. F. Sheppard.

#### Drainage, Dredging and Irrigation

Fla., Miami—City has low bid from Alfred Destin, 235 S. W. Fourth Ave., for dredging channel, Dinner Key, Biscayne Bay. 10-17

Fla., Tampa—U. S. Phosphoric Products Corp., Ruskin, Rd., let contract to Clark Dredging Co., 357 S. W. N. River Dr., Miami, for dredging 2,500,000 cu. yd., channel, South of Alafia River to ship channel in Hillsborough Bay, in connection with plant. (See Miscellaneous Enterprises, 10-3)

La., Alexandria—I. W. Sylvester, City Engr., presented plans for drainage system for city adequate to carry off flood water; \$150,000.

Miss., Gulfport—Jahacke Service, Inc., 814 Howard Ave., New Orleans, has contract for dredging around Frisco railroad terminals, giving enlarged turning basins and deeper loading berths.

Miss., Scantobia—See Miscellaneous Construction.

N. C., Greensboro—City Planning Comm. W. C. A. Hammel, Chmn., plans widening channel and straightening courses of North Buffalo Creek.

N. C., Washington—Maj. Gen. Lytle Brown, Ch. of Army Engrs., concurred in recommendation of Rivers and Harbors Bd. for modification of existing project for Pamlico and Tar Rivers, to provide channel 12 ft. deep, 200 ft. wide from A. C. L. R. R. bridge, Washington, to 12-ft. contour in river below; \$98,000, with \$7000 annually for maintenance.

Tex., Donna—Hidalgo County Water Control & Improvement Dist. No. 1 submitted plans to State Bd. of Water Engrs., for complete concreting of 43,000-acre canal system; canals and piping to ultimately cost \$1,700,000; A. Tamm, Engr., Harlingen. 9-19

Tex., Edna—Jackson County Drainage Dist. No. 1, Vanderbilt Section, voted \$55,000 bonds for drainage ditches and cleaning out ditches; J. H. Tucker, O. R. Malone and Wm. Wiede, Comms.

Tex., Fort Worth—See Miscellaneous Construction.

Tex., Harlingen—Cameron County Water Improvement Dist. No. 15, Ann Orr Houghton, Sec., Brownsville, voted \$199,000 bonds

for irrigating 1800 acres northeast of here; A. Tamm, Engr., Harlingen. (See Brownsville.) 10-3

Tex., San Benito—Cameron County Water Improvement Dist. No. 13 P. W. Sameuls, Pres., Brownsville, let contract to J. D. George Construction Co., Donna, for irrigation system to serve 5000 acres, costing \$300,000, including engineering; 500,000 sq. ft. conc. lining for canals, 15 mi. conc. pipe, 12 mi. drain ditch and approx. 15 mi. embankments for reservoirs, covering approx. 800 acres; H. B. Livingston, Engr., Balter Bldg., San Benito. (See Brownsville, 10-10)

#### Electric Light and Power

Electric light and power work in connection with many LAND DEVELOPMENT operations involves the expenditure of large sums of money. See that classification for details.

Ala., Birmingham—Alabama Power Co., reported, plans expenditure of \$1,250,000 during 1930 for expansion program to include 69 additional rural electric lines; counties to be served include Autauga, Baldwin, Barbour, Clay, Chambers, Elmore, Lawrence, Lauderdale, Lee, Limestone, Talladega, Tallapoosa, Tuscaloosa and Wilcox.

Ark., Huntsville—T. B. Reed, reported, has contract for completion of stone and conc. building for city light plant.

Ark., Morrilton—City, reported, having preliminary plans prepared by Burns & McDonnell Engineering Co., 402 Interstate Bldg., Kansas City, Mo., for water works and distributing system.

Florida—J. N. McDonald, 714 First Bank and Trust Co., Sarasota, reported, granted permit by Federal Power Comm., Washington, for 16,000 h.p. hydro electric plant on Oklawaha River in Marion and Putnam Counties; cost about \$1,000,000; George L. Pratt, Citizens & Southern Bank Bldg., Atlanta, Ga., Engrs.; Scott B. Appleby, Jr., 2501 30th St., N. W., Washington, D. C., financing project; now making final survey preparatory to obtaining license from Federal Power Commission, which should be in about 3 months. 7-4

Ky., Lexington—Kentucky Utilities Co., Metropolitan Bldg., Louisville, construct 68,000 volt line from Lexington to Maysville on Ohio River; 66,000 volt line Shelbyville to Carrollton and a 33,000 volt line from Mount Sterling to Salt Lick near Morehead; E. W. Brown, Engr.; C. C. Dicken, Pur. Agt. 9-26

Maryland—Empire Public Service Corp., 1600 Arch St., Philadelphia, Pa., announces that it is acquiring East Coast Utilities Co., Somerset Electric Co., Betterton Ice & Electric Co., Suburban Electric Power Co., Old Dominion Public Service Co., Blowing Rock Light & Power Co.; these companies with subsidiaries furnish light and power service to over 8000 customers in Maryland, Delaware, Virginia and North Carolina; operations include generating stations with a combined capacity of 7750 kw., 770 miles of transmission line and distribution systems serving 134 communities; telephone operations include 1185 miles of lines, 15 exchanges; principal communities served are: Pocomoke City, Princess Anne, Chincoteague, Accomac, Onancock, Tilghman, Deal Island, Betterton, on Eastern Shore; in Virginia principal communities include: Waverly, Dendron, West Point, Reedsville, Colonial Beach, Deltaville, Irvington, Weems and Stuart. 10-10

Mo., Joplin—Empire District Electric Co., reported, acquired city's lighting system. 10-10

Mo., Lebanon—Central States Power & Light Co., 327 S. LaSalle St., Chicago, Ill., reported, developing hydro electric project on Little Niangua River near southern end of Camden County, 27 miles from here; in addition to dam, which will be 17 ft. high and 400 ft. long, company is drilling tunnel 13 ft. sq. through 800 ft. limestone cliff; install two generating units with capacity of 12,000,000 kw-h. per year; Management & Engineering Corp., 327 S. LaSalle St., Chicago, Ill., has contract for dam; D. B. Martin, Supt. of Construction.

N. C., Robbinsville—Nantahala Power & Light Co., Bryson City, reported, acquired 15 yr. light and power franchise, transmission and distribution system.



Okla., Blackwell—City, votes Nov. 12 on purchase of 2500 kw. turbine and condenser for power plant; cost \$75,000.

Okla., Fairview—City voted \$30,000 bonds for extensions and improvements to power system. 8-1

Okla., Oklahoma City—Oklahoma Gas & Electric Co., J. F. Owens, V. P. and Gen. Mgr., let contract to Allis-Chalmers Mfg. Co., Milwaukee, Wis., for turbine at Belle Isle steam electric generating plant; boiler and superheaters to Springfield Boiler Co., Springfield, Ill.; condensers not yet ordered; work under supervision of Byllesby Engineering and Management Corp., 231 S. La Salle St., Chicago, Ill. 8-29

Texas—Texas Power & Light Co., Dallas, reported, construct light plant and distribution systems in Van, Van Zandt County.

Tex., Galveston—See Roads, Streets, Paving.

Tex., Burnet—Ray Summerrow, representing interests contemplating building of dam across Colorado River below Bluffton; Chamber of Commerce interested.

Virginia—Virginia Public Service Co., Charlottesville, plans hydro-electric development in Bath and Alleghany Counties; company advises proposed dam will be in Alleghany County across Jackson River and will form lake covering approximately 12,000 acres; plans prepared by Charles B. Hawley & Co., Const. Engrs., Munsey Bldg., Washington, D. C.; geological work by Wilbur Nelson of University of Virginia; both engineering and geological surveys practically completed; plans and specifications in progress; project will be one of three contemplated units for development of hydro-electric resources on upper tributaries of James River and constitutes unit of program estimated to cover 4 or 5 years in execution.

### Fertilizer Plants

Md., Baltimore—Consolidated Engineering Co., 20 E. Franklin St., reported, has contract for \$40,000 storage building for Baugh Chemical Co., 25 S. Calvert St.

Md., Pocomoke City—W. E. Valliant, Valliant Fertilizer Co., Marine Bank Bldg., Baltimore, states regarding report company will build \$50,000 fertilizer plant here that company acquired tract of land some time ago, but has no intention of building a plant.

### Flour, Feed and Meal Mills

La., Lake Charles—Lake Charles Milling Co. increased capital, \$300,000 to \$500,000; plans expansion.

Miss., Lexington—Hiawatha Milling Co., Inc., Lamar Bldg., Jackson, reported, acquired properties of Lexington Gln & Trading Co., including feed mill, seed sheds and gin.

Mo., Springfield—Missouri Farmers Assn. Milling Co., 540 Benton St., reported, let contract to F. M. Davis, 454 E. Walnut St., for warehouse; rein. conc.; 2 story and basement; 80x135 ft.; 1 story heating plant, 20x30 ft.; cost \$30,000. 10-17

Tenn., Martin—Southern Milling Co. incorporated; G. W. Munroe, B. F. Hall.

### Foundry and Machine Plants

Md., Baltimore—Maryland Bolt & Nut Co., Mt. Washington, has permit for \$10,000 building, 1330 Smith Ave.; 2 story, brick, 30x60 ft., slag roof; Consolidated Engineering Co., Archt.-Contr., 20 E. Franklin St.

Mo., Kansas City—Clay & Bailey Mfg. Co., 7007 E. 15th St., and its subsidiary, Morgan Foundry Co., Osage and White Ave., Independence, acquired site, 40th St. bet. Gould Ave. and Frisco right-of-way, Leeds Dist.; brick building on tract to house foundry; erect 3 buildings, including machine shop, warehouse and cleaning room, giving 26,000 sq. ft. floor space.

Mo., St. Louis—Paf Mfg. Co., Greenville, Ill., erecting spark plug plant; 80x125 ft.

Mo., St. Louis—Moon Motor Car Co., Inc., Stanley Moon, Sec., 4400 N. Main St., advises no expansion program contemplated in connection with change in stock. 10-24

Okla., Oklahoma City—Specialty Tool Corp. erecting machine shop, E. G St.; 30x100 ft.

Okla., Tulsa—Shaffer Specialty Co., E. J. Shaffer, Pres., 113 S. Denver St., oil field equipment manufacturer, erecting \$28,000 machine shop, King and Lewis St.; 1 story, 50x100 ft.; Oklahoma Building & Investment Co., Gen. Contr., Boston Bldg.

Okla., Tulsa—Tulsa Boiler & Machinery Co., 2020 S. Union St., increasing capital, \$150,000 to \$600,000.

S. C., Greenville—American Loom Co., capital \$50,000, formed to perfect and manufacture improved loom invented by Rev. D. B. Hahn; F. A. Lawton, Pres. and Treas., 620 E. McBee Ave. 9-12

Tenn., Franklin—Allen Mfg. Co., W. F. Allen, Pres., Nashville, let contract to Roberts Construction Co., Birmingham, Ala., for grading and spur track for stove plant; foundation, Sam N. Hodges, 579 Peachtree St., N. E., Atlanta, Ga.; 450 tons struc. steel, Nashville Bridge Co., Nashville, Tenn.; Robert & Co., Engrs., Bona Allen Bldg., Atlanta, Ga. 10-17

Tex., Dallas—Huey & Philip Hardware Co. remodeling plant, Pacific Ave. and Griffin St., to include additional warehouse and repair shop facilities.

Tex., Houston—Hughes Tool Co., 300 Hughes St., let contract to Houston Structural Steel Co., 3910 Washington St., for \$18,000 addition to plant; 41x441 ft., all steel. 10-3

Tex., Port Arthur—Gulfport Boiler & Welding Works, Inc., 320 Seventh St., capital \$20,000, chartered; B. R. Schultz, J. F. Leblanc.

### Gas and Oil Enterprises

Ala., Birmingham—Shell Petroleum Corp., c/o Shell Eastern Petroleum Products Corp., 141 Milk St., Boston, Mass., reported, construct plant Seventh St. and Carolina Ave.; steel and conc.

Ala., Birmingham—Birmingham Gas Co., granted franchise by Irondale City Council to extend gas service to Irondale and by Hollywood City Council to extend gas service to Hollywood; filed application with Alabama Public Service Comsn., Montgomery.

Ala., Talladega—City soon vote on sale of water works and gas plant to General Water Works & Electric Corp., Fort Worth Club Bldg., Fort Worth, Tex. 10-3

Ark., Scranton—M. W. Greeson, Prescott, reported, granted natural gas franchise at Subiaco and Scranton.

Ga., LaGrange—Cities of LaGrange, Mayor Fincher, and West Point, Ga., petitioned Southern Natural Gas Corp., First National Bank Bldg., Birmingham, Ala., for extension of natural gas line.

Ky., Hopkinsville—Castleberry Oil & Gas Co. incorporated; A. D. Noe, C. L. Morgan.

La., Mansfield—Triple Oil Co., Inc., capital \$20,000, incorporated; W. C. Clark, Box 12; J. C. Hamilton, 1108 Ontario St., Shreveport.

La., Monroe—Chauvin Gas Co., Inc., chartered; James A. Noe, 106 Fairview St.

La., Sarepta—King Oil & Gas Co., Inc., capital \$50,000, chartered; Wm. Kemp.

Missouri—Cities Service Gas Co., Bartlesville, Okla., subsidiary of Henry L. Doherty & Co., 60 Wall St., New York, constructing 65 mile 10-in. all welded gas pipe line, Saginaw to Springfield, 10 mile completed; line constructed by Henry L. Lemmons, Connor Hotel, Joplin; pipe used in construction purchased from Spang-Chalfant & Co., Inc., Clark Bldg., Pittsburgh, Pa. 3-7

Miss., Natchez—Interstate Natural Gas Co., 26 Broadway, New York, reported, start work at once on 30 mile loop line from Mississippi river front here to point 5 miles of Woodville; cost \$1,100,000; line will comprise a 22-in. unit; Williams Bros., Inc., 302 S. Cheyenne St., Tulsa, Okla., have contract. 10-3

Miss., Vicksburg—Southern Natural Gas Corp., First Natl. Bank Bldg., Birmingham, Ala., reported, signed contract with Mississippi Power & Light Co., Jackson, to distribute natural gas for domestic and industrial purposes in Jackson, Yazoo City, Canton, Durant and Kosciusko.

Mo., Kansas City—Battenfeld Grease & Oil Corp. incorporated; J. R. Battenfeld, 5106 Cherry St.

Mo., La Plata—Macon County Consumers Oil Co., capital \$20,000, incorporated; Fred N. McDeritt, J. B. Alexander.

Mo., St. Louis—Equality Oil & Fuel Co. incorporated; Louis Faake, East St. Louis, Ill.; Joseph F. Schmitt, 3445a McKean St., St. Louis.

N. C., Hendersonville—Francis R. Weller, Inc., Mills Building, Washington, D. C., preparing plans for \$400,000 gas plant; financing by Parsly Bros. & Co., 1421 Chestnut St., Philadelphia, Pa. 9-12

Okla., Ada—D. & H. Co. incorporated; Joel H. Hall, Holdenville; W. A. Delaney, Ada.

Okla., Chickasha—Holden Drilling Co., capital \$100,000, incorporated; Harry B. Holden, Oklahoma City; W. B. Dewes, Chickasha.

Okla., Muskogee—Lockhart Gas Co. increased capital to \$25,000.

Okla., Oklahoma City—City, reported, negotiating for distribution system of Oklahoma Natural Gas Co.

Okla., Oklahoma City—Mid-Kansas Oil & Gas Co., Findlay, Ohio, reported, acquired Ramsey Petroleum Co.'s interests in Nicoma oil district.

Okla., Tulsa—Orion Oil Co., capital \$30,000, incorporated; K. C. Dorn, Palace Bldg.

Okla., Purcell—Magnolia Pipe Line Co., Magnolia Bldg., Dallas, Tex., constructing 42 miles of 8-in. line to run from company's main trunk line at Purcell 41 miles from Oklahoma City field; Stewart Bros., Beaumont, Tex., stringing pipe; MacPherson Construction Co., Magnolia Bldg., Dallas, Tex., ditching line.

Tenn., Union City—W. B. Dozier, Madisonville, Ky., reported, interested in establishment of gas plant.

Texas—Lone Star Gas Co., 1915 Wood St., Dallas, reported, acquired Texas Cities Gas Co., operating in El Paso, Galveston, Waco, Paris and Brenham, Tex., and several cities in Oklahoma.

Tex., Abilene—Gorsuch Oil Co., capital \$35,000, incorporated; R. R. Rhodes, E. M. Funkhouser.

Tex., Abilene—Close Drilling Corp., capital \$35,000, incorporated; Elmer Close, Harold A. Burt.

Tex., Amarillo—Shamrock Oil & Gas Co., J. B. Orr, Clark Bldg., Pittsburgh, Pa., reported, applied for gas franchise; construct 12-in. pipe line.

Tex., Beaumont—Westberry Co. of Texas incorporated; W. O. Turner, 2450 Franklin St.

Tex., Coleman—Midland Gasoline Co., reported, construct 4-unit gasoline plant in Eastland pool district 6 miles northwest of here.

Tex., Del Rio—City, reported, granted gas franchise to Del Rio Natural Gas Co.

Tex., Fort Worth—La-Tex Gas Co., Hodge Station, subsidiary of Magnolia Petroleum Co., Dallas, reported, granted gas franchise in city.

Tex., Grand Saline—Pure Oil Co., Petroleum Bldg., Fort Worth, reported, acquired 27 acres for tank farm for oil storage.

Tex., Houston—Phillips Petroleum Co., Bartlesville, Okla., reported, construct wharf and warehouse on ship channel; pier 250 ft. long; dredge 600 ft. frontage to wharf.

Tex., Houston—Midway Oil and Royalty Co., incorporated; H. T. Staiti, Chronicle Bldg.

Tex., Lucas—Gulf Pipe Line Co., subsidiary of Gulf Corp., Frick Annex, Pittsburgh, Pa., reported, acquired 200 acre tract near here for \$125,000 extensions, including storage and distributing plant, steel tanks, pumping and power equipment.

Tex., Orange—Shell Petroleum Corp., care of Shell Eastern Petroleum Products Corp., 141 Milk St., Boston, Mass., reported, has tentative plans for dredging canal from Black's Bayou to intracoastal canal.

Tex., San Angelo—Oklahoma Natural Gas Co., 112 N. Broadway, Oklahoma City, Okla., reported, construct tool house, blacksmith and repair shop at 349 S. Chadbourne St.; 1 story, brick; later plan erection of \$75,000 warehouse and office building; J. A. Bramblett, Supt.

Tex., San Antonio—Sloane Prospecting Co., Inc., capital \$20,000, incorporated; S. H. Rabon, 204 Luther Drive.

Tex., Somerville—C. E. Stewart, Brenham, lately noted having gas franchise, reported, plans natural gas system, including distribution system in city, lay 12 mile main pipe line from fields near Independence, and 15 mile natural gas distribution system from here to Caldwell. 10-3

Tex., Wichita Falls—W. B. Hamilton, Hamilton Bldg., R. O. Harvey, Harvey-Snyder Bldg., and associates, reported, interested in organizing company with \$1,000,000 capital; develop oil in Wichita, Willbarger, Clay, Archer and Young Counties.

Tex., Wichita Falls—Dale Oil Refining Co., City Natl. Bank Bldg., increased capital \$150,000 to \$250,000.

West Virginia—Subsidiary of Columbia Gas & Electric Corp., 61 Broadway, New York, purchased about 200 mile of 8-in. pipe

line from Southern Pipe Line Co., Oil City, Pa.; bring natural gas to Atlantic Seaboard from company's West Virginia fields.

Va., Pulaski—United Fuel Gas Co., subsidiary of Columbia Gas & Electric Co., both 61 Broadway, N. Y., reported, applied for franchise; also reported, applied for franchises in Dublin, Radford, Christiansburg, Blacksburg, Pearisburg, Narrows, Salem, Roanoke, Lynchburg, Charlottesville, Buena Vista, Lexington, Covington, Clifton Forge, Staunton, and Harrisonburg. 10-24

W. Va., Charleston—Kentucky Southern Gas Co., incorporated; R. J. Skillman, 1607 Quarrier St.

West Virginia—Veleair Smith, Kanawha Valley Bldg., Charleston, reported, handled field work in connection with purchase by Allegheny Gas Producing Co. of Laurel Development Co., Bear Branch Gas Co., Foote Oil & Gas Co., Union Oil & Gas Co., West Side Gas Co., Ray Gas Co., G. T. Ray & Son, Livkous & McClung, C. C. Wolfe and 6 smaller companies.

W. Va., Wheeling—Pedlar Run Oil Co., capital \$25,000, incorporated; J. F. Swisher, Wheeling; J. L. Moore, Fairmont.

### Ice and Cold-Storage Plants

Fla., Fort Myers—Spadere Holding Co., Joseph Spadere, New York, start work by day labor Jan. 1, erecting cold-storage plant; 1 story, brick, built-up roof, steel, conc. floors; Sam Bruton, Graystone Hotel, in charge of construction; private plans. 10-17

S. C., Burton—Enterprise Ice & Mfg. Co., Beaufort, let contract to York Ice Machine Co., York, Pa., for machinery and equipment to double capacity of ice plant; erect icing platform 380 ft. long.

Texas—Clayton Williams, Fort Stockton, establish ice plant, Bakersfield.

Tex., Crosby—Crosby Ice & Cold Storage Co., capital \$30,000, incorporated; I. C. Krenek.

Tex., San Perlita—San Perlita Development Co., plans \$25,000 ice and cold-storage plant; private plans.

W. Va., Morgantown—North Pole Ice Co., 614 Gaston Ave., Fairmont, soon begin erecting ice plant; conc., brick, steel, 2-story and basement, 30 tons daily; include plant, garage, office and apartments.

### Iron and Steel Plants

Okla., Oklahoma City—J. A. Werme Iron & Steel Co., 510 N. Indiana St., erecting warehouse; 100x300 ft.

Tex., Fort Worth—Metal Arts Iron & Steel Co., incorporated; Miss Ruth DeVitt, Pres., 3236 W. Seventh St. 9-26

W. Va., Wheeling—Wheeling Steel Corp., let contract to Alliance Machine Co., Alliance, Ohio, for 2 ladle cranes.

### Land Development

Fla., Fort Pierce—Acme Citrus Groves Co., capital \$20,000, incorporated; Milton Bacharach, J. H. Atkins.

Fla., Jacksonville—Jacksonville Beach Properties, Inc., chartered; F. S. Perry, 1484 Avondale St.

Fla., Jacksonville—Homestead, Inc., chartered; P. E. Register, 3888 Walsh St.

Fla., Madison—South Georgia Farms Corp., incorporated; J. L. King, C. S. Jones.

Fla., Miami Beach—James F. Matthews, Pres., Matthews Properties, Inc., 720 Collins Ave., reported, construct miniature golf course and country club on Washington Ave.; E. L. Robertson, Archt., Calumet Bldg.; J. C. Gaffney, Contr., 708 Collins Ave.

Fla., St. Petersburg—Sunbay Co. incorporated; A. M. Shields, 233 Florida Arcade.

Fla., St. Petersburg—Old Tampa Bay Holding Co., incorporated; H. W. Holand, Florida Theatre Bldg.

La., Monroe—City, Will H. Atkinson, Street and Park Commr., plans development of park on Thomas Ave.

La., Thibodaux—Enery Realty Investment Corp., capital \$25,000, incorporated; F. L. Price.

La., Youngsville—R. O. Young, Inc., capital \$150,000, incorporated; R. O. Young.

Mo., Joplin—Table Rock Development Assn., Inc., chartered; W. R. Draper, F. A. Morgan.

Mo., St. James—Meramec Farms, Inc., chartered; J. A. Miller, J. E. Rowland.

Mo., St. Louis—Sally Realty & Investment Co., incorporated; Joseph McCabe, 1023 E. Park Place.

S. C., Myrtle Beach—Myrtle Beach Sales Co., reported, develop additional golf courses in connection with subdivision development. 5-12-28

Tenn., Knoxville—Knoxville Union Real Estate Co., capital \$200,000, incorporated; W. F. Robertson, Jr., 120 Pearl Place.

Tex., Beaumont—City probably develop 65 acre park at north city limits.

Tex., Corpus Christi—City plans voting on \$25,000 park bonds. See Financial News Column.

Tex., Edcouch—Jill Texas Farms Corp., capital \$50,000, incorporated; Joseph and Frank Jill.

Tex., Houston—City acquiring tract of land for development civic center and park improvements.

Tex., Houston—Fairfax Land Co., Judge C. A. Teagle, State Natl. Bank Bldg., acquired 100 acres on Holmes Road.

Tex., Kerrville—Elmer D. Real, reported, acquired 900 acre ranch in Kerr and Kimble County.

Tex., Laredo—City, reported, develop park on Chacon Creek; expend \$50,000.

Tex., Port Arthur—Port Arthur Lions Club, Hugh E. Graham, Sec., advises club does not contemplate development of Lake Sabine water-front, is merely taking initiative and promoting public interest in and for development of water front, making it possible to float bonds to enable city to pay for project. 10-10

Tex., Sweetwater—Ollie Cox, Mertzon, reported, acquired 5 section land east of Highway 70; develop goat ranch.

Va., Norfolk—Graylock Corp., capital \$25,000, incorporated; Hamilton Plack, Law Bldg.

### Lumber Enterprises

Ark., Mena—Lauck Lumber Co. acquired Watkins Lumber Co.

Fla., St. Petersburg—Grounds Lumber & Millwork Co., capital \$25,000, incorporated; E. H. Grounds, 826 21st Ave., N.

N. C., Murphy—Murphy Planing Mill Co., capital \$10,000, incorporated; W. H. Woodbury, Biltmore; C. D. Mayfield, Murphy.

Okla., Mangum—Rounds & Porter Lumber Co. acquired Farmers Lumber & Supply Co., Ltd.

S. C., Lancaster—S. W. Mullis Lumber Co., Inc., capital \$10,000, chartered; S. W. Mullis.

West Virginia—Thomas Watson and O. J. Styber, reported, representing Evans Manor Land and S. B. Weiler, 335 Fifth Ave., all Pittsburgh, Pa., acquired large holdings of Kendall Lumber Co., Pittsburgh, Pa., in Preston and Monongalia Counties, 30,000 acres timber land.

### Metal-Working Plants

Ala., Tarrant, Birmingham—Universal Metal Mfg. Co. let contract to Price & Belcher, 2904 N. 27th St., Birmingham, for plant; 1 story, 75x125 ft., steel sash, conc. floor; Chas. H. McCauley, Archt., 709 Jackson Bldg., Birmingham. 1-3

### Mining

Ky., Lexington—Jellico Mining Co., capital \$25,000, incorporated; Guy H. Sowards, 101 Shady Lane.

Tex., Houston—Del Rio Stone Co., Albert Schrader, Pres., Marine Bank Bldg., Houston, increasing capital \$100,000 to \$300,000.

### Miscellaneous Construction

Fla., Miami—State Drainage & Flood Control Boards voted \$70,000 appropriation for emergency flood relief work in Dade and Broward Counties; Marcus A. Milam, 1800 N. Miami Ave., Miami, Member of Bd., placed in charge of work, which includes expenditure of \$50,000 in Miami Dist. now.

Ga., Atlanta—Atlanta Speedways let contract to W. P. McDonald-Construction Co., 381 Fourth Ave., New York, for ½ mi. dirt track automobile speedway, Pace's Ferry Rd.; grandstand completed; speedway 40 ft. wide, with outer edge 14 ft. higher than lower, oiled surface; W. H. Allgood Trucking Co. has contract for hauling excavated earth; construction under way.

Louisiana—U. S. Engr. Office, foot of Prytania St., New Orleans, opens bids Nov. 7 for wooden revetment work in Second New Orleans Dist., designated by name, location, length; Barataria Levee Dist.—Jesuit Bend (995.5R), 3862 ft.; Alliance (1001R), 2030 ft.; Amorette (1020R), 2460 ft.; Lake Borgne Levee Dist.—Pointe a la Hache (1014L), 1300 ft.

Louisiana—U. S. Engr. Office, foot of Prytania St., opens bids Nov. 7 for constructing 51,000 cu. yd. levee work, Barataria Levee Dist., Alliance Levee Extension (1001.2R).

Missouri—U. S. Engr. Office, McCall Bldg., let contract to Cameron-Joyce-Smith-Elder Co., 1970 S. Seventh St., Keokuk, Ia., at \$19,800, for constructing about 60,000 cu. yd. earthwork, Lower St. Francis Levee Dist. 10-24

Missouri—U. S. Engr. Office, McCall Bldg., Memphis, Tenn., let contract to Woods Bros. Construction Co., Lincoln, Neb., at \$29,908, for 655 ft. dikes and repairing 3 existing dikes, Mississippi River near Baders. 10-3

Miss., Indianola—Fills—See Bridges, Culverts, Viaducts.

Miss., Senatobia—Comms. of Jim Wolfe Creek Drainage Dist., Courthouse Bldg., open bids Nov. 15 for approx. 168,000 cu. yd. earthwork in Jim Wolfe Creek Drainage ditch, Tate County.

Tenn., Memphis—U. S. Engr. Office, McCall Bldg., let contract to Rice-Brown Construction Co., Burlington, Kans., for constructing about 2500 cu. yd. earthwork, W. W. Brown Private Levee, Neosho River. 10-3

Tex., Corpus Christi—City plans voting on \$60,000 incinerator bonds.

Tex., Fort Worth—Tarrant County Water Control & Improvement Dist. No. 1, W. R. Bennett, Pres. of Bd., has plans for excavation and removal of 40,000 cu. yd. earth underneath and adjacent Van Zandt viaduct, W. Seventh St., and constructing 10-ft. sub-foundations for each 5 piers supporting bridge west of arch spanning Clear Fork, as first step in flood control plans; Hawley & Freese, Engr., Capps Bldg. (See Water Works, 9-19.)

Tex., Houston—City, D. Barker, Land & Tax Commr., advises regarding proposal of Biltmore Conservation Corp., Petaluma, Calif., to construct \$225,000 incinerator, plan only tentative. 10-24

Tex., Port Arthur—City having plans completed for \$2,000,000 seawall; plans probably be out for bids in January; J. B. Converse & Co., Inc., Engr., State Office Bldg., Mobile, Ala. 10-24

Tex., San Antonio—City Engr. Office rejected all bids for river improvement, Nueva to Martinez St.; Hawley & Freese, Engr., Frost Natl. Bank Bldg. 10-3

### Miscellaneous Enterprises

Ala., Huntsville—Electric Belle Range Co. having porcelain enameling plant installed by Ferro Enamel Supply Co., Keith Bldg., Cleveland, Ohio; G. A. Rogers has building contract. 10-24

Ala., Montgomery—Swift & Co., Union Stock Yards, Chicago, Ill., erect \$500,000 packing plant, 10 acre site adjoining Montgomery Stock Yards.

Ark., Little Rock—American Bakery, 1223 W. Seventh St., erecting addition, Seventh and Pulaski St.; Schay & Newman, Gen. Contr.; private plans. 10-17

D. C., Washington—E. P. Hinkel & Co., 488 Maine Ave., having plans drawn for \$70,000 laundry, 1315 Half St., S. E.; 2 story, brick; Pringle & Arnold, Archts.-Engrs., 1315 Half St., S. E.

Fla., Gainesville—Imperial Tung Oil Corp., incorporated; M. G. Hawks, Seymour Fox.

Fla., Jacksonville—Prest-O-Lite Co., Inc., 30 E. 42nd St., New York, has plans in progress for \$45,000 plant; 134x55 ft., conc. floors, metal roof, 1 story, corrugated steel on steel frame.

Fla., Miami—Camassa Building Construction Co., incorporated; J. E. Camassa, 3600 S. W. 17th St.

Fa., Milton—Scruggs Boat Co., Inc., chartered; J. A. Scruggs.

Fla., Tampa—Tampa Authors Music Publishing Association, Inc., William E. Jennings, Pres. and Treas., P. O. Box 2781, recently organized, advises music now to be printed under contract; plan establishing own printing plant ultimately. 10-24

Ga., Atlanta—Brantley & Doby, 214 Terry St., S. E., stone yard operators, erect metal shed and frame building, rear 770 Ashland Ave., N. E.; 31x34 and 140x67 ft.; comp. and metal roofing, conc. footings; \$10,500.

Ga., Gainesville—Eagle Publishing Co., A. F. Ean, Pres., install press and newspaper folding machine. See Want Section—Machinery and Supplies. 10-24

Ga., Thomason—T. D. Simmons, Charlotte, N. C., moving large job printing plant from



Charlotte to lower floor, Masonic Bldg., Railroad St.

Ky., Cynthiana—Growers' Tobacco Warehouse Co., capital \$10,000, incorporated; W. G. Wigglesworth, Luther Humphrey.

Ky., Elizabethtown—Elizabethtown Laundry, capital \$25,000, incorporated; James Hartlage, Cecilia; Robert Glessner, Elizabethtown.

Ky., Louisville—American Cigar Co., 317 Roland St., and 111 Fifth Ave., New York, let contract to Struck Construction Co., 147 N. Clay St., for \$400,000 plant, 30th and Madison St.; 4 story and basement, 80x200 ft., rein. conc., brick, steel. 6-13

La., Crowley—A. M. Smith, Kapland, granted franchise by Louisiana Public Service Comm. for motor freight and passenger service. Crowley to Firke Island, on Intra-Coastal Canal, 13 mi. south of Kaplan; to be known as Intra-Coastal Transport Co.

La., Crowley—Bernard Engineers, Inc., capital \$10,000, chartered; Merrill Bernard.

La., Jennings—McLeese Publishing Corp., capital \$30,000, incorporated; J. M. McLeese, Miss Ada Patterson.

La., Lake Charles—Lake Charles Rice Milling Co., of Louisiana, Inc., J. A. Foster, Pres., increasing capital to \$500,000.

La., Lake Charles—Banfield Bros. Packing Co., Inc., 915 E. Apache St., Tulsa, Okla., advises inedible rendering plant and abattoir to be erected by company's engineers; machinery, supplies and equipment secured. 10-17

Md., Baltimore—Philadelphia Quartz Co., William T. Elkinton, Pres., 121 S. Third St., Philadelphia, Pa., manufacturer of silicate of soda in various forms, used as adhesives, preservatives, impervious coatings, etc., acquired 4-acre site for branch plant, Fort Ave., Decatur St. and B. & O. R. R., Locust Point.

Md., Baltimore—Guilford Folding Box Co., Eager St. and Fallaway, let contract to Consolidated Engineering Co., 20 E. Franklin St., for \$190,000 plant, Philadelphia Rd., extending 13th to 14th St.; 206x160 ft., 1 story, steel columns, wood frame, comp. roof, conc. floors.

Md., Baltimore—Stonleigh Stores Co., Albert P. Strobel, Jr., Pres., 810 N. Charles St., let contract to Consolidated Engineering Co., 20 E. Franklin St., for erecting and planning \$40,000 plant, 3-5-7 E. Pleasant St.; 4 story, brick, steel; Schofield Co., 2 E. Saratoga St., silversmiths, Lessee.

Md., Easton—Easton Publishing Co., publishers of Star-Democrat, acquired Easton Gazette, weekly newspaper.

Md., Salisbury—Webb Packing Co., Crisfield, broke ground for \$150,000 meat-packing plant and slaughter house, Truitt St.; handle 1000 animals daily; employ 100; begin operations in April.

Miss., Shubuta—Chamber of Commerce interested in establishing creamery.

Mo., Cape Girardeau—Wielputz Bakeries Corp., capital \$100,000 incorporated; Paul W. Sackrey, Max J. Wielputz.

Mo., Jamesport—Northeast Missouri Mausoleum Co., capital \$500,000, incorporated; R. H. Hayes, A. M. Fagin.

Mo., Kansas City—Glaseco Electric Co. plans \$40,000 plant to manufacture electrical equipment; 1 story, 100x110 ft.; Victor J. DeFoe, Archt., 114 W. Tenth St.

Mo., Mexico—Missouri Farmers' Association, William Hirth, Pres., Columbia, plans erecting \$50,000 poultry products plant in Spring.

Mo., Poplar Bluff—Wielputz-Toellner Bakeries, Inc., capital \$75,000, incorporated; William Tellner, Chas. Polk.

Mo., Princeton—Carl Nelsohn, Lineville, establish modern creamery.

Mo., Springfield—O. T. Hamlin, 212½ E. Commercial St., let contract to O. L. Allen, 1840 N. Douglas St., for \$18,000 bottling plant, N. Benton near Commercial St.; 1 story, 69x110 ft., face brick, built-up roof, conc. floors, struc. steel, cut stone trim, steel sash; Nehl Bottling Co., Lessee, 1625 Benton Ave.; private plans.

Mo., St. Louis—Dubinsky Realty Co., 504 Wainwright Bldg., receiving bids for plant, 3133 Washington Ave.; 1 story and basement, 75x130 ft., brick, conc.; St. Louis Spring Co., Lessee, 3135 Washington Ave.; B. Shapiro, Archt., Syndicate Trust Bldg.

Mo., St. Louis—Sauter-Park Amusement Co., capital \$30,000, incorporated; Gustave A. Sauter, 1037 Le May Ferry Rd.

N. C., Belton—E. B. Rice and associates have plans for children's garment plant.

N. Main St.; brick, 1-story and basement, approx. 5,000 sq. ft. floor space; ordered complete battery of electrically operated sewing and cutting machines.

N. C., Mooresboro—Mooresboro Creamery, J. U. Rollins, Mgr., erecting creamery; creamery room, 40x60 ft.; commercial room, 30x60 ft.; install mechanical refrigeration system.

N. C., Winston-Salem—Frank Wilson acquired controlling interest in Lipscomb's Bakery, 521 N. Trade St.; now erect frame addition; install modern oven and flour sieving and blending outfit.

Okla., Lawton—Fairmount Creamery Co. let contract to Sheaffer & Reynolds Co., Oklahoma City, for \$100,000 plant; 3 story, rein. conc., 3 story and basement.

Okla., Miami—Tri-State Dr. Pepper Bottling Co., capital \$25,000, incorporated; O. R. Monroe, J. M. Catron.

Okla., Madill—Herbert Pate, former managing editor, Hobart Democrat-Chief, acquired Madill Record and Red River Farmer, weekly publications.

Okla., Shawnee—Shawnee Morning News has low bid from G. P. Carr Construction Co., Shawnee, at \$23,900, for newspaper building, including heating, plumbing and wiring; Edward J. Peters, Archt., Shawnee.

Okla., Shawnee—Crystal Pool & Amusement Co., capital \$35,000, incorporated; E. M. Thompson, Cleveland; Buss D. Hockman, Shawnee.

Okla., Stroud—Co-operative Creamery Association erecting plant.

Okla., Tulsa—Ozark Chemical Co., Cosden Bldg., erect plant addition by day work; Southwest Engineering Co., Engr., 910 N. Elwood St.

Okla., Tulsa—Pittsburgh Equitable Meter Co., 834 Kennedy Bldg., let contract about Nov. 6 for branch plant and warehouse; 50x150 ft., brick, steel, conc. floors, conc. roof; A. J. Kerr, Dist. Mgr.; Rush, Endacott & Goff, Archts., Wright Bldg. 10-17

S. C., Chester—Foremost Dairy Products, Inc., Jacksonville, plans acquiring Community Creamery Co. plant.

Tenn., Chattanooga—National Amusement Co., capital \$10,000, incorporated; W. H. Couch, 636 S. Crest Rd.

Tenn., Chattanooga—Southern Dairies, Inc., 14 E. Seventh St., Chattanooga, and 60 M St., N. E., Washington, D. C., plans erecting modern ice cream plant.

Tenn., Chattanooga—NU Icy Bottling Co., Inc., chartered; Charles R. Morris, 2403 Duncan Ave.

Tenn., Franklin—Tennessee Cereal Co., B. W. Ernst, Pres. and Mgr., opens bids Nov. 12 for \$100,000 wheat cereal plant; 100x200 ft., rein. conc., brick, conc. floors, asphalt roof; install rolling mills, steam cookers, electric dryers and electric toasters. See Want Section—Machinery and Supplies. 10-10

Tenn., Jackson—Pilotheva Lamp Corp., capital \$49,000, incorporated; J. W. Roell, F. A. Chambers; manufacture oscillating automobile headlights.

Tenn., Kingsport—Tennessee Eastman Corp., James C. White, Gen. Supt., manufacturer of cellulose acetate, increasing capital, \$2,500,000 to \$3,500,000; erecting plant. 10-10

Tenn., Memphis—Plough, Inc., Abe Plough, Pres., 121 S. Third St., reported, postponed awarding contract for \$1,000,000 chemical plant 30 days; Hanker & Cairns, Archts., Court Square Bldg.; Jackson & Moreland, Engrs., 31st and St. James Ave., Boston, Mass. 10-3

Tenn., Memphis—Coca-Cola Bottling Co., James C. Pidgin, Pres., let contract to Jas. E. Faries, 63 S. Third St., for \$30,000 bottling plant, 246 Washington Ave.; 1 and 2 stories, comp., built-up roof, conc. and wood floors, misc. steel and iron; H. E. Brooks, Engr., 63 S. Third St.

Tenn., Memphis—Swift & Co., Engineering Dept., Union Stock Yards, Chicago, Ill., soon start erecting \$500,000 packing plant, 10-acre site, Jackson Hwy., and Sixth St.

Tenn., Nashville—L. T. Lewis & Sons, 534 N. First St., has contract for brick work on \$100,000 addition to Hermitage Laundry, 15 S. Fifth Ave.; Sumner Construction Co., Gen. Contr., 1202 Broad St.; Marr & Holman, Archt., Stahlman Bldg. 8-1

Tenn., Shelbyville—Bedford Underwear Mills, Inc., capital \$10,000, chartered; I. L. Power, F. L. Wallheiser, J. C. Fly.

Tex., Amarillo—All-American Life Insurance Co., capital \$500,000, being formed; trustees include, C. W. Furr, Fiske M. & P. Bldg., J. N. Riggs, 710 Taylor St., Hugh E. Exum, 2210 Hughes St.

Tex., Beaumont—Nehi Bottling Co., E. H. Gale, 2920 Port Arthur Rd., install bottling machine and ice plant. See Want Section—Machinery and Supplies.

Tex., Dallas—Protector's Mutual Life Co. incorporated; A. Morgan Duke, Central Bk. Bldg.

Tex., Dallas—Southwest Dairy Products, Santa Fe Bldg., erect \$20,000 creamery; brick.

Tex., Denison—Kraft-Phenix Cheese Corp., 400 Rush St., Chicago, Ill., start erecting \$100,000 complete plant in November to manufacture dairy products, equipped to process cheese and mayonnaise, etc.; work by company's Architectural and Construction Dept.

Tex., El Paso—Continental Trunk & Bag Co., 216 S. Stanton St., increasing capital, \$50,000 to \$150,000.

Tex., El Paso—Ingalls Iron Works Co., 720 Fourth Ave., S., Birmingham, Ala., has contract for 185 tons struc. steel for power house of Nichols Copper Co., 25 Broadway, New York. 10-17

Tex., Goose Creek—Fire Fighting—City let contract to Seagraves Corp., Columbus, Ohio, for 600-gal. capacity triple combination pumper for fire department, costing approx. \$10,000.

Tex., Houston—Eagle Printing & Publishing Co., Inc., chartered; S. B. Nicks, 1647 Richmond St.

Tex., Houston—City may erect \$150,000 abattoir.

Tex., Waco—Fisher's Hot Shop, Winfield Fisher, 2105 Lyle Ave., erect \$100,000 bakery, 17th and May St.; 2 story, 100x150 ft.; 50,000 loaves daily capacity; Roy E. Lane, Archt., 108½ S. Sixth St.

Va., Norfolk—Grayson Construction Corp. incorporated; Hamilton Plack, Law Bldg.

Va., Norfolk—H. B. Hunter Co., Inc., 1500 Brown St., chemists, let contract to W. T. Gregory, Law Bldg., for \$25,000 warehouse, Reservoir and Brown Ave., Brambleton; steel, brick, rein. conc., 2 story, 202x50 ft.; R. W. Gregory, Engr.

Va., Rose Hill—J. H. Hobbs, T. B. Fugate, Van Grabel and associates interested in having plant established by Kraft Phenix Cheese Corp., 400 Rush St., Chicago, Ill.

W. Va., Fairmont—Eye Pleas Auto Lens Corp., capital \$100,000, incorporated; L. G. Giordano, 22 Pennsylvania Ave.; manufacture automobile lenses.

W. Va., Wellsburg—Pillsbury Flour Co., Metropolitan Life Bldg., Minneapolis Life Bldg., Minneapolis, Minn., let contract in week for \$150,000 sack plant, 18th and Yankee St.; take raw paper product from firm's mill near Ohio River, manufacture into paper sacks and print, to be utilized as flour containers.

### Motor Bus Lines and Terminals

Ga., Atlanta—Inter-City Coach Lines, Inc., authorized by Georgia Public Service Comm. to operate bus line, Ponce de Leon Ave. and Clifton Rd. to Courthouse and Georgia R. R. station, Decatur.

Ky., Scottsville—Southern Kentucky Coach Co., capital \$10,000, incorporated; N. Goebel Goad, J. A. Dunn.

La., Monroe—Missouri Pacific Transportation Co., subsidiary of Missouri Pacific R. R. Co., L. W. Baldwin, Pres., St. Louis, Mo., applied to Louisiana Public Service Comm. for permit to operate motor vehicle passenger service from extension of Jackson St. to Rilla, 6 mi. south of city.

La., New Orleans—Teche Transfer Co., Inc., 414 N. Rampart St., let contract to J. A. Petty & Sons, Inc., Godchaux Bldg., at \$11,309, for alterations to brick building, N. Rampart and Conti St.; Favrot & Livaudais, Archts., Hibernia Bank Bldg. 10-17

Md., Cumberland—Potomac Edison Co., T. W. Peters, Gen. Mgr., 112 Union St., let contract to Wright Richardson, Citizens Bank Bldg., for altering and addition to bus terminal and office, S. Center St.; 2 story, brick; \$35,000.

Miss., Jackson—Arrow Freight Lines, Inc., C. E. Chambers, Pres., Memphis, Tenn., applied to State Railroad Comm. to operate freight motor line, Memphis, Tenn., to Jackson.

Tex., Lamesa—Carlsbad Cavern Stages, Inc., capital \$35,000, chartered; O. F. Priest, C. C. Costin.

Tex., Wichita Falls—Wichita Falls Traction Co. authorized to operate bus line into east side of city.

Va., Hopewell—Petersburg, Hopewell and City Point Ry., James A. Baird, Wythe and Sycamore Sts., Petersburg, plans removing trolley tracks in city and substituting bus service.

Va., Lynchburg—City Mgr. R. W. B. Hart requested Retail Merchants' Association and Chamber of Commerce to appoint joint committee to suggest site for bus terminal, and to recommend to City Council ways and means of acquiring site.

W. Va., Romney—Meyer Transit Co., Davis, authorized by State Road Comm. to operate bus line, Romney to Virginia state line near Capon Bridge.

### Motor Cars, Garages, Filling Stations

Ala., Birmingham—Virginia Bridge & Iron Co., Roanoke, Va., has contract for 220 tons struc. steel for garage of Chevrolet Motor Co., Detroit, Mich.; E. G. Holladay Co., Gen. Contr., Martin Bldg.; Albert Kahn, Archt., Marquette Bldg., Detroit, Mich. 1-3

Ala., Birmingham—Virginia Bridge & Iron Co., P. O. Drawer 925, Roanoke, Va., has contract for 250 tons steel for garage of A. S. Klyce.

Ala., Gadsden—Wofford Oil Co., 3331 Ninth Ave., N., advises have no plans for building service station, Mitchell Ave. and Nichols St. 10-24

Ark., Fort Smith—C. N. Green, Green Bldg., plans filling station; 70x80 ft.

Ark., Wynne—H. K. Barwick, Jr., let contract to Bradley & Glass Construction Co., Jonesboro, for garage; Estes W. Mann, Archt., Cotton Exch. Bldg., Memphis, Tenn. 10-10

D. C., Georgetown—Parkway Motor Co., Inc., Ford dealers, 1065 Wisconsin Ave., N. W., Washington, acquired site Jefferson and M Sts., and having plans prepared for garage and salesroom; 3 story, 40,000 sq. ft. floor space; equip with 3-car wash stand, paint shop, body shop, etc.; David Stern, Archt., 1412 I St., N. W., Washington.

Fla., Jacksonville—Shell Petroleum Corp., care Shell Eastern Petroleum Products Corp., 141 Milk St., Boston, Mass., let contract to S. S. Jacobs Co., City Realty Bldg., for erecting service stations to be used by company; work started on Savannah (Ga.) unit; also on station, Sixth and Pearl St., Jacksonville.

Fla., Tampa—Ben Hill Co., incorporated; B. H. Hill, 1501 Grand Central Ave.; automobiles and accessories.

Ga., Atlanta—John W. Grant, Grant Bldg., let contract to George A. Clayton Co., Bona Allen Bldg., for \$50,000 garage building, Courtland and Pine St., N. E.; 2 story, 146 x92 ft., rein. conc., struc. steel roof truss, steel sash, steel folding doors, corrugated iron roofing, brick, hollow tile and wood partitions, ramp system; Knowles-Nash Motor Co., Lessee; private plans.

Ga., Brunswick—Coastal Holding Co., Inc., let contract to A. F. Perry, Brice County, Jacksonville, for \$33,000 showroom and service building, Gloucester and Norwich St.; started construction; L. A. Miller, Archt., New Castle St. 10-3

Ga., Savannah—See Fla., Jacksonville.

Ky., Louisville—Summers-Herrmann, Inc., (Ford dealers), 905 S. Third St., having plans completed for \$125,000 garage, Third and Breckinridge St.; 3 story, 50x200 ft.; add 2 stories and remodel present 1-story building; construct ramps; first floor, showrooms, stock rooms, offices and service dept.; second, work shops; third and roof for storing cars; take bids in about 2 weeks; D. N. Murphy & Bro., Archts., Louisville Trust Bldg.

La., Monroe—Glenn's Service & Storage Co., Inc., capital \$20,000, chartered; Walker Glenn, Sr., 201 Arkansas Ave.

La., New Orleans—Shell Petroleum Co., care Shell Eastern Petroleum Products Corp., 141 Milk St., Boston, Mass., let contract to Wm. Wallace, Pere Marquette Bldg., for filling station, St. Charles Ave. and Euterpe St.; paving and drains, J. J. Mertweiller, 7712 Spruce St.; plumbing, Kussman Plumbing, Inc., 4920 Prytania St.; elec. wiring, Geo. P. Caire, 4310 S. Rocheblave St.

La., Shreveport—Wheless Investment Co., Commercial Bank Bldg., erect service station, 70th St. and St. Vincent Ave., Cedar Grove; Texas Co., Lessee, Ricou-Brewster Bldg.

Md., Baltimore—Guilford Realty Co., 3330 St. Paul St., postponed erection of garage, 220 Guilford Ave.; present structure to be razed; space leased to Central Parking Co., 309 W. Franklin St., for parking space. 8-22

Md., Baltimore—Sun Oil Co., Haines and Warner Sts., erect filling station, Light and Lee St.; office building, 11x20 ft., with canopy, double driveway, tile and stucco; owner, Archt.-Contr.

Md., Baltimore—Stonleigh Stores Corp., Albert P. Strobel, Jr., Pres., 810 N. Charles St., having plans prepared for garage, St. Paul and Saratoga St.; total cost \$1,550,000; Wm. G. Nolting, Archt., Keyser Bldg. 8-22

Miss., Greenville—L. J. Fowles Store plans filling station, 1501 Alexander St.

Mo., St. Louis—Johnson Automobile Co., 3667 Olive St., let contract to Gillespie & Daly, Inc., International Life Bldg., for \$20,000 garage, 3653 Olive St.; 1-story, 50x162 ft.; Hiram Phipps, Archt., 4162 Castleman Ave.

Mo., St. Louis—Cities Service Oil Co., Tulsa Trust Bldg., Tulsa, Okla., Wm. L. Lund, Local Mgr., 600 S. Vandeventer Ave., let contracts to International Co., 3115 S. Grand Blvd., for 3 filling stations; Page and Aubert St., Grand Blvd. and McDonald St., and 22nd and Olive St.; each brick, stucco, terra cotta, 1 story, 16x24 ft., grease rack, 23x28 ft.; H. S. Pettingill, Co.'s Archt.

Mo., St. Paul—William J. Abbott Realty Co., 806 Chestnut St., erect \$24,000 garage and display room, Kingshighway Blvd. and Beck Ave.; Morgan-Jones Motor Co., 4360 Manchester St., negotiating for lease; Alexander B. Boyer, Arcade Bldg., and Harris Armstrong, 115 W. Big Bend Rd., Archt.

N. C., Charlotte—Seaborn Auto Works, Inc., capital \$25,000, chartered; W. A. Thomas, 900 Louise Ave.

N. C., Thomasville—Mendenhall Motor Co., capital \$100,000, incorporated; C. K. Mendenhall, G. O. Bodenheimer.

Okla., Enid—Champlin Refining Co., care David Tauffast let contract to D. C. Bass & Sons, Enid, for \$30,000 garage and service station; 1 story 150 x 125 ft., brick.

Okla., Oklahoma City—Independent Oil & Gas Co., starting erection 3 filling stations; 200 E. Fourth St., \$15,000; 501 N. Walker St., \$10,000; S. Robinson St., \$10,000.

Okla., Oklahoma City—Norris Co. let contract to C. E. Huffman, for \$15,000 garage addition; 75 x 150 ft.

Okla., Tulsa—Nichols Transfer & Storage Co., 1 N. Boulder St., now start erecting \$10,000 private garage by day work; 1 story, 50 x 100 ft.; private plans.

S. C., Charleston—Firestone Tire & Rubber Co., Akron, Ohio, Thomas B. Allen, Local Mgr., 37 Gibber St., soon call bids for \$100,000 master service station, Meeting and Ann St.; brick, steel, 2 story, 1-stop. 3-28

Tenn., Covington—Tennessee Oil Co. let contract to Forum James Co., Dyersburg, for \$15,000 filling station and garage, Pleasant Ave. and Jefferson Davis Hwy.; garage, 50x80 ft.; filling station, 30x80 ft.; brick, tile, stucco; Dennis Motor Co., Inc., Lessee.

Tenn., Nashville—Dunlop Tire & Rubber Co., R. B. Mann, 310 Fourth Ave., S., soon operate chain of tire stores in city.

Tex., Alice—Clarence Holmgreen has low bid from L. B. Mitchell, at \$19,900, for garage; 1 story, 100x75 ft., brick, tile, struc. steel, rein. conc., cast stone, conc. and tile floors; Chevrolet Sales Agency, Lessee; Hardy & Curran, Archt., Nixon Bldg., Corpus Christi; W. E. Simpson Co., Engr., Milam Bldg., San Antonio.

Tex., Austin—Adolph Kohn, 407 W. Seventh St., has permit for remodeling Seekatz Bldg., 14th and Lavaca St., into filling station; \$14,000; C. W. Moore, Gen. Contr., 609 W. 16th St.

Tex., Austin—Paul O. Simms, 121 W. Seventh St., has permit for filling station, 201 W. Second St.

Tex.-Ark., Texarkana—Main Auto Storage Co., Inc., capital \$10,000, chartered; A. C. Ward, Paul O. Bentley.

Tex., Dallas—Simms Oil Co., B. P. Dunlap, Supt. of Construction, Magnolia Bldg., let contract to J. O. Everett, 1909 N. Harwood St., for \$40,000 super service station and store building, Maple and Cedar Springs Ave., North Dallas; 200x150 ft., 3 story; 3 stores, terra cotta, stone; install 10 electrically operated gasoline pumps and equipment for every kind of automobile repairs, battery and tire vulcanizing; started construction.

Tex., Donna—Tennison Motor Co., capital \$50,000, incorporated; J. R. Tennison.

Tex., Goose Creek—Henry Cathringer, Ford Agt., soon start erecting \$18,000 building, Commerce and Pierce St.; A. I. Jacobs to supervise construction; A. J. Salisbury, Archt., Post-Dispatch Bldg., Houston.

Tex., Houston—Halliburton Oil Well Cementing Co., Petroleum Bldg., let contract to H. S. Joplin for garage, 7214 Navigation

Bldg., at \$12,800; Charles P. Jones, Co.'s Archt., Arch Binz Bldg. 10-10

Tex., Houston—Shell Petroleum Co., care Shell Eastern Petroleum Products Corp., 141 Milk St., Boston, Mass., leased site, Caroline and McGowen St., for filling station.

Tex., La Grange—City Service Station, Edgar Rosenberg and E. W. Gest, let contract to Edwin Pohl for filling station, Warnken property, Jefferson St.; duntile.

Tex., Lugkin—C. L. Dupuy let contract to W. A. Foster for \$35,000 automobile station, S. Angelina and Burke St.; brick.

Tex., Palestine—Humble Oil & Refining Co., Humble Bldg., Houston, acquired site and building, Spring, Main and Sycamore St.; probably raze building and erect filling station.

Tex., Port Arthur—Inman Chevrolet Co., Philip Inman, Pres., let contract to H. W. McCord, Adams Bldg., Port Arthur, at \$35,000, for automobile building addition, Procter St.; broke ground; C. L. Wignall, Archt., Barnes Bldg. 10-17

Tex., Port Arthur—Linn Motor Co., 823 Procter St., let contract to Ed. Fears, Edgemore Addition, for \$20,000 addition.

Tex., San Antonio—Mrs. Emmy Dittmar & Associates, 405 Howard St., let contract to Ed. W. Oeffinger, 710 Ave. A, for \$75,000 garage, Howard bet. Laurel and Cypress St.; ready for sub-bids; Richard Vander Straten, 603 Travis Bldg., and Herff & Jones 208 S. A. Loan & Trust Bldg., Asso. Archt. 10-10

Tex., San Benito—Forrest Runnels started erecting filling station, S. Sam Houston and Palm Blvd.

Tex., Settegast—McDonald Chevrolet Co., let contract to A. T. Schmitz, Jr., for \$13,000 building, including mechanical work; conc. tile, brick.

W. Va., Welch—Welch Motor Co., Inc., capital \$25,000, chartered; C. J. Hunter, G. W. Howard.

### Railways

La., Hammond—Canton & Carthage R. R. Co., F. W. Reimers, Pres. and Gen. Mgr., ordered locomotives from American Locomotive Co., 30 Church St., New York.

La., Natchez—New Orleans, Natchez & Natchez Ry. Co., F. C. Denkmann, Pres., Rock Island, Ill., ordered 2-8-2 type locomotive from American Locomotive Co., 30 Church St., New York.

S. C., Bennettsville—Bennettsville & Cheraw R. R., J. R. Page, V.-Pres., Aberdeen, N. C., authorized by Interstate Commerce Comm. to reinstate service on 10-mi. portion of road discontinued few years ago; Bennettsville to be southern terminus from Brownsville to Sellers.

Va., Roanoke—Norfolk & Western Ry. Co., W. P. Wiltsee, Ch. Engr., rebuild 470 all-steel 90-ton gondola coal cars at Roanoke shops.

### Railway Shops and Terminals

Ala., Gadsden—Tennessee, Alabama & Georgia Ry., G. W. Christians, V.-Pres. and Ch. Engr., Chattanooga, Tenn., making surveys for \$40,000 yard improvements.

Ark., Eldorado—St. Louis Car Co., Geo. L. Kippenberger, Asst. Gen. Mgr., 8000 Broadway, St. Louis, Mo., advises now delivering 7 gas-electric power unit cars to Rock Island Lines, J. E. Gorman, Pres., Chicago, Ill., equipped with Electric-Motive Co.'s Dual No. 148—800-h. p. power plants including 2 distillate burning Winton engines; 5 units equipped with General Electric traction motors and 2 Westinghouse motors; 600 or 800-h. p. motor cars intended for passenger service, 65 mi. per hour, including 280-ton train on tangent level track; 1 machine geared for freight work, capable of hauling 800-ton train on level track at 30 mi. per hour. 10-17

Kentucky—Chicago, Indianapolis & Louisville Ry. Co., A. S. Kent, Ch. Engr., Chicago, Ill., purchased 10 Mikado type locomotives from American Locomotive Co., 30 Church St., New York. 10-24

La., Crowley—Texas & New Orleans R. R. Co., R. W. Barnes, Ch. Engr., Houston, Tex., subsidiary of Southern Pacific Lines, relocate tracks in city.

Okla., Felt—Atchison, Topeka & Santa Fe Ry. Co., G. W. Harris, Ch. Engr., Chicago, Ill., authorized by New Mexico Corp. Comm. to lay new line, Felt, Okla., 149 mi. to connect with main line, Colmor, N. M.; 110 mi. in New Mexico, 31 in Oklahoma.



W. Va., Edwight—Chesapeake & Ohio Ry. Co., C. W. Johns, Ch. Engr., Richmond, Va., applied to Interstate Commerce Comn. for authority to extend Marsh Fork line of Cabin Creek branch, Edwight to Surveyor, connecting with Piney Creek branch, 19.3 mi.

W. Va., Hinton—Chesapeake & Ohio Ry. Co., C. W. Johns, Ch. Engr., Richmond, Va., let contract to Sanders, Castle & Sanders, Ashland, Ky., for light repair work on yard buildings; \$75,783.

### Roads, Streets and Paving

In connection with LAND DEVELOPMENT large sums are expended for roads, streets, paving and sidewalks. Details will be found under that classification.

#### Proposed Construction

Ala., Birmingham—City Comm. receives bids Nov. 19 for conc. curbing, gutter, sidewalks, and conc. and asphalt paving on about 15 streets and avenues, including Lee Ave., North Eighty-first St.; A. J. Hawkins, City Engr.

Ala., Birmingham—City Comm. plans expending \$93,850 to pave 10 streets, including Bessemer Highway, along Bessemer road, from Avenue M. Ensley, to Southern city limits, and install sewers; A. J. Hawkins, City Engr.

Ark., Conway—State Highway Comm., Little Rock, considering widening and repaving 2 mi. State Highway No. 64 through Conway, Faulkner County, from Conway Compress Co. plant, southern limits to north limits on Washington Ave.; C. S. Christian, State Highway Engr.

Ark., Fayetteville—City considering paving Government Ave., Wall St. to Prairie Ave.; E. M. Ratliff, Engr.

Ark., Fayetteville—City, preliminary plans for 30-ft. wide conc. paving, South School St.; E. M. Ratliff, Engr.

Fla., Lake Worth—Palm Beach County, Jake Boyd, County Engr., West Palm Beach, plans rebuilding sidewalk along Lake Worth Bridge, connecting mainland with ocean beach.

Fla., Titusville—Brevard County Commrs., N. T. Frocher, Clk., receive bids Nov. 5 to grade, bridge and install culverts on 2.61 mi. Road No. 2, Dist. No. 3, from point west and south of Melbourne to Lockmar; J. P. Hunter, Engr., Melbourne. 10-24

Ga., Atlanta—Fulton County Commrs., considering paving ¼ mi. Northside Dr., between Forrest and Belle Meade roads.

Ky., Bowling Green—State Highway Dept., Frankfort, plans 9 mi. crushed stone, Bowling Green-Scottsville Highway, from Allen Springs at Warren-Allen County line to Sweetney's Mill Bridge near Greenwood; J. S. Watkins, State Highway Engr.

Ky., Frankfort—State Highway Comm., Frankfort, plans 2 mi. surfacing Frankfort-Owenton road, Franklin County, Frankfort city limits to Peaks Hill Junction; surfacing 3 mi. Nicholasville-Lancaster road, to Sulphur Well School; gravel surface 1½ mi. road near Sturgis, Webster County; J. E. Watkins, State Highway Engr.

Ky., Hopkinsville—C. E. Pack, Locating Engr. for State Highway Dept., Frankfort, will make survey for state road from Hopkinsville, Christian County, to Princeton, Caldwell County; J. S. Watkins, State Highway Engr.

Louisiana—Louisiana Highway Comm., H. B. Henderlite, Engr., Baton Rouge, plans 1,000 mi. penetrating asphalt surface treatment, during present administration; cost \$1,600 to \$2,500 per mile.

Louisiana—Louisiana Highway Comm., Baton Rouge, receives bids Dec. 10 for 2 roads: Sabine Parish—8.1 mi. conc., Many-Florien Highway, Route No. 42; Allen Parish—7 mi. conc., Oberlin-Kinder Highway, Route No. 24; H. B. Henderlite, State Highway Engr. 10-3

La., Alexandria—Comm. Council, V. V. Lamkin, Mayor, receives bids Nov. 4 to pave with rein. conc. Gould Ave., Levin St. to Louisiana Ave.; I. W. Sylvester, City Engr.

La., Monroe—City, Arnold Bernstein, Mayor, receives bids Nov. 5 to pave Thomas Ave., Grand to Wilson St.

La., Shreveport—City, S. G. Wolfe, Sec. Treas., plans paving La Paloma, Alston and Dillingham St.; cost about \$10,000.

Md., Baltimore—City, Bd. of Estimates, approved proposed ordinances to open, widen and grade 12 streets, including Camden, Korman, Russell St.; Forest Park, Chestnut Hill, White Ave.; Falls road; Nathan L. Smith, Highways Engr.

Md., Baltimore—City, Bureau of Highways, will repave at once, south driveway of Baltimore St., Light St. to Center Market Place, Chas. F. Goob, Ch. Engr.

Md., Sharptown—Wicomico County Commrs., Salisbury, plan 1½ mi. conc. road from Maryland Highway, through Sharptown to Delaware State Highway, leading to Laurel.

Miss., Cleveland—State Highway Dept., Jackson, receives bids Nov. 11 to pave 2 mi. state trunk road, Cleveland to Boyle, Bolivar County; 23,467 sq. yd. plain cement conc. or 22,293 sq. yd. 2-in. rock asphalt, 1½-in. sheet asphalt with binder, 2-in. Warrentite bitulithic, 2-in. asphaltic conc.; 21,120 lin. ft. conc. curb; G. A. Draper, State Highway Engr.

Miss., Houston—Chickashaw County Bd. of Suprvs., W. A. Wilkinson, Clk., receives bids Nov. 4 for Houston and Vardman road, between Stations 98 to 106 and Stations 32 to 42; 5662 cu. yd. dirt work.

Miss., Meridian—Lauderdale County Bd. of Suprvs., will improve and gravel Meridian and Marion Highway.

Miss., Sardis—Panola County Bd. of Suprvs., J. A. Carter, Clk., receives bids Nov. 11 for 1.7 mi. gravel surface, Pleasant Grove and Sledge Highway, Suprvs. Dist. No. 2.

Missouri—State Highway Comm., Jefferson City, receives bids Nov. 7 for 26 roads and 25 bridges: Andrew County—4.139 mi. 18-ft. gravel, Route 71-Rosendale, bridge over 102 River, deck girders and truss, 118,937 cu. yd. excavation, 91,250 lb. struct. steel; Daviess County—3.346 and 3.043 mi. 18-ft. conc. Harrison County line to Pattonburg, 65,983 sq. yd. paving, 12,778 cu. yd. excavation; Harrison County—4.891 and 3.801 mi. 18-ft. conc., Route 4 to Daviess County line, 17,654 cu. yd. excavation, 91,776 sq. yd. paving; Gentry County—4.605 mi. 18-ft. gravel, Nodaway County line to Stanberry, 103,375 cu. yd. excavation; bridges over Moccasin Creek and Town Branch, slabs and deck girders; Cass County—3.577 mi. 36-ft. graded earth, Jackson County line, south, 44,554 cu. yd. excavation, bridge over Big Creek, deck girders; Carroll County—3.735 mi. 9-ft. conc., Norborne to Ray County line, 49,925 cu. yd. excavation, 19,624 sq. yd. paving, slab bridges over drainage ditches.

In Carroll County—3.457 mi. 9-ft. conc., Norborne to Ray County line, 39,007 yd. excavation, 18,047 sq. yd. paving, 3 bridges over drainage ditches, slab and triple 8x6 box; Ray County—3.812, 3.576 and 3.010 mi. 9-ft. conc., Richmond to Carroll County line, 184,772 cu. yd. excavation, 5 bridges over Crooked Overflow and drainage ditch, I-beams, slabs and truss, 92,060 lb. struct. steel; Osage County—587 mi. 30-ft. graded earth, Junction Route 63, east, 6970 cu. yd. excavation; 4.325, 3.917, 4.755 and 4.742 mi. 30-ft. graded earth, Osage River Bridge to Maries County line, 567,514 cu. yd. excavation, 3 bridges over Schmitz Branch, Maries River Overflow and Maries River, deck girders, truss and double 12x6 box, 109,160 lb. struct. steel; Franklin County—2.500 mi. 16-ft. gravel, Villa Ridge Cut-off, 24,450 cu. yd. excavation, bridge over Big Meramec River, arches, deck girders; 825-ft. bridge from St. Clair, east, 4460 lb. struct. steel.

In St. Charles County—4.209 mi. 18-ft. gravel, Old Monroe, south, 56,068 cu. yd. excavation, 5237 cu. yd. paving; bridges over Hostetter Branch and Perique Creek, deck girders; Taney County—1.340, 4.699 and 4.731 mi. 18-ft. gravel, Hollister to Arkansas State line, 134,367 cu. yd. excavation, 10,263 cu. yd. paving; Douglas County—4.140 and 4.226 mi. 24-ft. graded earth, Ava, east, 121,729 cu. yd. excavation, deck girder bridge over White Creek; Butler County—209 mi. 18-ft. gravel, Campbell to Poplar Bluff, 19,993 cu. yd. excavation; bridge over Missouri Pacific and Frisco R. R. truss and girders, 265,700 lb. struct. steel; Dunklin County—4.560 mi. 16-ft. gravel, Arbyrd to Hornersville, 37,610 cu. yd. excavation; bridges over Honey Cypress and Buffalo Drainage Ditches, deck girders; T. H. Cutler, State Highway Engr.

Mo., Columbia—City, J. S. Bicknell, Clk., plans paving with asphalt 5 blocks in Steward Road Dist.

Mo., Independence—Jackson County received low bid from List & Clark Construction Co., Kansas City, \$374,321, to grade and pave 7 mi. Blue River road, from Swope Park, on Blue River to point near Martin City; from H. H. Carrothers, Leeds, \$63,133 for bridge.

Mo., Jackson—City, Henry Puls, Clk., plans Highways 25 and 61 in Jackson and vicinity in Byrd Township; construct bridge for each highway, about 300 ft. apart.

Mo., Jefferson City—City, F. E. Ross, Engr., receives bids Nov. 12 for cement sidewalks on Monroe St., Tyler St. to Woodlawn Ave.; Tyler to Hickory St.; Atchinson to Franklin.

Mo., Springfield—City, C. A. Dickerson, Clk., plans grading, conc. paving and integral curb on Fremont Ave., Catalpa St. to Meadowmere Lane.

Mo., St. Louis—City, Bd. of Public Service, considering widening Goodfellow Ave., from between 60 and 70 ft. to 80 ft., Natural Bridge to McLaren Ave.; W. W. Horner, City Engr.

Mo., St. Louis—City, Bd. of Public Service, considering widening North Broadway, Morin to Switzer Ave.; \$175,000 appropriated; W. W. Horner, City Engr.

Okla., Hooker—City receives bids soon for additional paving; Benham Engineering Co. Perrine Bldg., Oklahoma City.

Okla., Muskogee—Muskogee County will gravel extension of Border Ave. west from Twenty-fourth St.

Okla., Oklahoma City—City, E. M. Fry, Mgr., may receive bids to pave streets in 6 districts, including Thirteenth, Fourteenth, Forty-fourth St.; W. W. Small, City Engr.

Tenn., Knoxville—City Mgr. Dempster, considering widening Sutherland Ave. 20 ft. and paving.

Texas—State Highway Comm., Austin, considering highway bridge over Canadian River, between Amarillo, Potter County, and Stinnett, Hutchinson County; G. G. Wickline, State Bridge Engr.

Tex., Anahuac—State Highway Comm., Austin, may receive bids soon to shell about 6 mi. Anahuac-Stowell-Winnie Highway, Chambers County; Gibb Gilchrist, State Highway Engr.

Tex., Austin—State Highway Comm., Gibb Gilchrist, Engr., Austin, plans new location for 67 mi. Austin-San Antonio highway, to eliminate all grade crossings.

Tex., Beaumont—Jefferson County, B. B. Johnson, County Judge, plans improving beach highway connecting Sabine Pass with Bolivar peninsular highway. See Financial News Columns.

Tex., Beeville—Bee County plans road building. See Financial News Columns. 10-24

Tex., Belton—Bell County Commrs. Court plans expending \$26,000 for roads in Academy Road Dist. No. 3-A. See Financial News Columns. 9-19

Tex., Canadian—Hemphill County Court, O. R. McMordie, County Judge, considering highway paving through county. See Financial News Columns.

Tex., Corpus Christi—City plans expending \$15,000 to widen Chaparral St.; \$10,000 to widen Staples St.; \$50,000, improve and widen Mesquite St.; \$20,000, paving. See Financial News Columns.

Tex., Corpus Christi—Nueces County Commrs. Court, Roy D. Clift, Clk., plans 16 mi. highway, along Corpus Christi Bay, connecting with 3-mi. causeway along Lagunda Madre, then to Padre Island; construction contingent on \$2,500,000 bond election, Nov. 9. 10-24

Tex., Fort Worth—City, O. E. Carr, Mgr., plans paving East Elmwood Ave., from Yuma Ave. to I. G. N. R. tracks; D. L. Lewis, City Engr.

Tex., Galveston—City receives bids Nov. 7 to widen and light Market St., Nineteenth to Twenty-fifth St., 8 in. wide, 20 in. deep, conc. curbs; widen Church St., Twenty-first to Twenty-second; W. B. McGarvey, City Engr. 10-3

Tex., Houston—City, W. E. Monteith, Mayor, plans expending \$15,000 toward improving old "Sap" track crossings in South End; Southern Pacific Lines, W. R. Barnes, Ch. Engr., Houston, will expend \$55,000 to lower grade of track from Yupon in Montrose, to McGowan; H. L. Shaw, City Engr.

Tex., Houston—City, W. E. Monteith, Mayor, considering conc. pavements, asphalt surfaces on Congress and Preston St.; H. L. Shaw, City Engr.

Tex., Houston—Harris County, Norman Atkinson, County Judge, plans 1.327 mi. 8 and 5-in. compacted shell surface, .284 mi. rein. conc. highway, from end of Federal Aid Project No. 512-A to Crosby road; 2.195 mi. grading, draining, conc. Highway No. 35, Houston Airport to Brazoria County line; A. J. Wise, Res. Engr.

Tex., Laredo—City, Albert Martin, Mayor, considering 80-ft. right of way for San

Bernardo Blvd. within city limits, to be paved from Highway southward.

Tex., Marshall—Harrison County plans 10.709 mi. grading, draining Highway No. 43, Sabine River Bottoms to Marshall; R. D. Rhodes, Res. Engr.

Tex., Mineola—City, plans street paving; J. S. McReynolds, Mayor. See Financial News Columns.

Tex., Mt. Pleasant—Titus County plans 2.821 mi. grading, draining Highway No. 65, from Federal Aid Project No. 333 and State Aid Project No. 448, to point south of Mt. Pleasant; A. J. Goode, Res. Engr.

Tex., Plainview—Hale County plans paving State and Federal Highways No. 9 and 27 through county; sold bonds.

Tex., Robert Lee—Coke County plans paving Tom Green County highway. See Financial News Columns.

Tex., San Angelo—Tom Green County considering 12 to 14 mi. highway paving, from present conc. strip east of San Angelo to Coke County line. See Financial News Columns.

Tex., San Benito—Cameron County Commrs. Court, Oscar C. Dancy, Judge, Brownsville, considering road through Barreda tract, from Military Highway, to north line of tract.

Tex., Sierra Blanca—Hudspeth County, Jesse C. Williams, Judge, plans 7.1 mi. grading, draining Highway No. 1, Sierra Blanca to Lasca, estimated cost \$49,235; J. W. Carter, Res. Engr.

Tex., Waco—City, E. E. McAdams, Mgr., receives bids Nov. 5 to pave North Twenty-fourth St., Gorman to Colcord Ave.; Maple Ave.

Tex., Wichita Falls—Wichita County, Paul Barnett, County Auditor, receives bids Nov. 18 to gravel surface 2 roads: 1560 ft. on Kell airport road; ½ mi. old Burk Burnett—Wichita Falls Highway north of E. Lewis survey, Precinct No. 2; J. M. Isbell, County Engr.

Va., Arlington—State Highway Comm., Richmond, receives bids No. 7 for 2 mi. sheet asphalt, Route 31, between Arlington, Arlington County, and Dist. of Columbia line; C. S. Mullen, Ch. Engr.

Va., Norfolk—City, I. Walke Truxton, Mgr., plans widening Boush St., Bute to Freemason St.

Va., Petersburg—City will conc. surface Johnson road, 18-ft. wide, from Lieutenant Run to South Blvd.

Va., Pulaski—State Highway Comm., Richmond, received low bid from Atlantic Refining Co., Inc., 200 S. Broad St., Philadelphia, Pa., \$5340, for 2.5 mi. bit. material road, Route 10, point west to point east of Radford, Pulaski County. 10-3

Va., Richmond—City, R. Keith Compton, Dir. of Public Works, plans expending \$94,833 to widen Fourteenth St., Cary to Franklin.

W. Va., Charleston—City, Mayor Wertz, plans extending various streets, including Dickinson; H. L. Campbell, City Engr. See Financial News Columns.

W. Va., Charleston—State Road Comm., considering plans to widen Midland Trail approach to Patrick St. Bridge, under construction, from south end of bridge to eastern corporate limits of South Charleston.

W. Va., Princeton—City, W. S. Brown, Mayor, plans widening Thorn St., from railroad bridge to Thorn St. school; grade and pave with rock base, asphalt top.

#### Contracts Awarded

Fla., Tampa—City, D. B. McKay, Mayor, let contract to Fred D. Beasley, Inc., 1514 Virginia Ave., Tampa, \$12,000, for 2½-in. asphalt blocks, 4-in. shell base paving, conc. curb on Fourteenth Ave., Twenty-second to Twenty-sixth St.; R. H. Cason, City Engr. 10-10

Ga., Claxton—City, C. E. DeLoach, Clk., let contract to Atlantic Bitulithic Co., Munsey Bldg., Washington, D. C., for 30,000 sq. yd. Warrenite bitulithic on 5-in. conc. base, paving, including sewers, curb and gutter; Carolina Engineering Co., 917 Johnson Bldg., Charlotte, N. C. 10-3

Louisiana—Louisiana Highway Comm., Baton Rouge, let contracts totaling \$35,558, for 8 emergency levee highway projects: Plaquemines Parish—.928 mi. Jesuit Bend Levee, S. B. Schoenberger, 921 Jefferson Ave., New Orleans; St. James Parish—.5 mi. Wagnespark Levee, Hoffman & Jones, Madisonville; St. Charles Parish—.5 mi. Alice Levee, Hoffman & Jones; East Baton Rouge

Parish—1 mi. Ben Hur levee, Young & De-Britton, Zachary; Avoyelles Parish—.39 mi. between Bordelonville and Hamburg, Laiche & Miller, Morganza; St. John Parish—.67 mi. Bon Secour levee, Laiche & Miller; Ascension Parish—1 mi. Waterloo levee, J. Burton LeBlanc, St. Gabriel; St. James Parish—.6 mi. Moonshine levee, Laiche & Miller; H. B. Henderlite, State Highway Engr.

La., Jennings—Flenniken Construction Co., Cahn Bldg., Shreveport, has contract to pave several streets.

La., Kentwood—City, J. H. Womack, Clk., let contract to Johnson, Russell Construction Co., McComb, Miss., \$16,356, for 100-ft. conc. street paving, conc. curb and gutter. 10-17

La., Monroe—City Council, P. A. Poag, Sec., let contract to M. Hyman, Monroe, to pave South Second, Pear, Alexander, Louisville, Ouachita St. and Grayling Lane; Arnold Bernstein, Mayor.

Miss., Canton—City, P. H. Virden, Clk., let contract to Lawrence Construction Co., Canton, at 70 cents lin. ft. for curb and gutter, 16 cents sq. ft. for sidewalks, and at \$1.65 per sq. yd. for 40-ft. 1½-in. Kentucky rock asphalt on slag or gravel base paving; H. R. Covington, Engr.

Tenn., Gallatin—City, Bd. of Aldermen and Mayor, E. E. Person, Recorder, let contract to Eller & Olsen, Cotton States Bldg., \$14,000, for grading, drainage, 4300 lin. ft. conc. curb and gutter, 4400 sq. yd. paving; C. N. Harrah, Engr., Fourth & First Natl. Bank Bldg., Nashville. 10-3

Tenn., Memphis—City, D. C. Miller, Clk., let contracts at \$177,205, to pave 7 streets: V. E. Schevenell Construction Co., 1280 Walker St.; F. S. Neely, 809 Maury St.; Hogan Construction Co., Front and Auction St.; Carey-Reel Construction Co., 575 N. Front St.

Tenn., Nashville—City, Hilary E. Howse, Mayor, let contracts totaling \$70,274 for paving, curbing, gutter and underground connections in West Belmont Circle, Belmont Blvd., Jones Ave. and Barton Ave.; Eller & Olsen, Cotton States Bldg.; Municipal Paving & Construction Co., Independent Bldg.; Rhodes Construction Co.

Texas—State Highway Comm., Austin, let contracts for 8 roads and 3 bridges aggregating \$1,025,425: Livestock County—13 mi. grade, drain Highway No. 9, from Atascosa County line to Three Rivers, C. T. Ingram, Cuero, \$67,160; Grimes County—3.3 mi. conc. Highway No. 90, from near Navasota to Navasota River, Russ Mitchell, Inc., Petroleum Bldg., Houston, \$63,923; 16.34 mi. gravel surface course Highway No. 90, point south of Roaps Prairie to Madison County line, Brown & Root, Seventh and Lavaca St., Austin, \$131,498; Henderson County—7.8 mi. conc. Highway No. 31, Murchison to Athens, Frye Brothers, Iola, Kansas, \$166,377; Panola County—15½ mi. 10-ft. conc. Highway No. 64, Sabine River Bridge to Louisiana State line, Frye Brothers, \$228,882; Tarrant County—6 mi. grading, draining Highway No. 34, Twelfth St. to Nine Mile Bridge road, James Spencer & Son Construction Co., Royal St., Hot Springs, Ark., \$121,839; 10 mi. grading, draining Highway No. 114, Dallas County line to Denton County line, Womack & Henning Construction Co., Sherman, \$95,731; Palo Pinto County—8 mi. grading, draining Highway No. 25, end of improvements to Jack County line, E. F. Bussey & Son and C. T. Childs, Rising Star, \$59,675; Falls County—bridge over Little Brazos River, about 15 mi. from Marlin, E. E. Board & Son, Cleveland, \$10,465; Williamson County—2 bridges over Brushy Creek, Edwin Artman, Giddings, \$79,771; Gibb Gilchrist, State Highway Engr. 10-3

Texas—State Highway Comm., Austin, let contracts for 10 roads and 3 bridges: Matagorda County—6.47 mi. rein. conc., Highway No. 58, from St. L. B. & M. R. R. underpass to Pheasant, Dexter Construction Co., Lovefield Drive, Dallas, \$135,511; 2.263 mi. conc., Highway No. 58, in Bay City, Dexter Construction Co., \$50,634; rein. conc., steel and treated timber bridge across Colorado River, State Highway No. 58, L. H. Lacy Co., Burt Bldg., Dallas, \$244,334; Brazoria County—grading, draining Highway No. 58, Matagorda County line to San Bernard River, F. W. Heldenfeld, Rockport, \$54,419; Wilbacy County—8 mi. conc., Highway No. 96, Raymondville to Kenedy County line, F. P. McElwath, Corsicana, \$156,943; Guadalupe and Hays Counties—12 mi. gravel base, surface course, Highway No. 123, from point north of Geronimo to San Marcos city limits, J. L. Vilbig, 2517 Eakin St., Dallas, \$91,079; Comanche County—13 mi. grading, draining, Highway No. 10, Erath County line to point east of Comanche, Dickie Brothers & Blanton, Woodson, \$69,677. In McLennan County—4 mi. grading,

draining Highway No. 67, Speegleville road to Bosque Blvd., Barker Bros., Amarillo, \$111,869; large drainage structures, L. H. Lacy Co., \$91,749; Brown County—14 mi. grading, draining Highway No. 10, from point east of Brownwood to Comanche County line, Dean Word, Itasca, \$76,101; large drainage structures, F. L. McElwath, \$32,092; Tarrant County—4 mi. grading, draining Highway No. 1, Dallas County line to Death Crossing, near Arlington, J. L. Vilbig, \$48,420; Denton County—14 mi. grading, draining Highway No. 114, Tarrant County line to Wise County line, Womack Henning Construction Co., Sherman, \$108,691; large drainage structures, Word & Worrell, Itasca, \$60,803; Cherokee County—rein. conc. bridges across Samson and Striker Creeks, Highway No. 43, Gaines & Yoakum, \$19½ W. Main St., Oklahoma City, \$44,600; Gibb Gilchrist, State Highway Engr. 10-3

Tex., Amarillo—Willmering & Mullen, 96 Polk St., have contract to pave Thirty-sixth Ave. to connect city paving with new Canyon Highway paving; W. N. Durham, City Mgr.

Tex., Amarillo—John McKnight, 2014 Monroe St., has contract to pave 16 blocks, Third Ave., from Garfield St. east; W. N. Durham, Mayor.

Tex., Anahuac—Chambers County, L. R. Miller, let contract to J. L. Jones, Houston, to shell 2 roads in Precinct No. 3; Smith Point road; Stowell-High Island road. 8-8

Tex., Austin—Southwest Bitulithic Co., Littlefield Bldg., has contract to improve Guadalupe St., Eighth to Nineteenth St.

Tex., Center—City let contract to Engineering Construction Co., Dallas, for about 40,000 lin. ft. curb and gutter, 40,000 sq. ft. sidewalks, 8000 sq. yd. conc. paving and drainage structures.

Tex., Franklin—N. P. Turner, Marshall, has contract for 17 mi. paving in Robertson County.

Tex., Fort Worth—General Construction Co., 403 Cotton Exchange Bldg., has contract, \$94,635, to pave Berry St., Eighth Ave. to Edgevale road; D. L. Lewis, City Engr. 10-24

Tex., Gainesville—City Council let contract to Jagoe Construction Co., Denton, for 64,000 sq. yd. bit. brick paving.

Tex., Palestine—City let contract to C. A. Dale, Palestine, \$8407, to widen Avenue A 30 to 48 ft.; Matt Davenport, Street Commr. 10-24

Tex., San Antonio—City, C. M. Chambers, Mayor, let contract to Colglazier & Hoff, Inc., 125 Crosby St., \$14,241, to improve Probrandt St., East Cavallos to Simpson St.; I. Ewig, City Engr. 10-10

#### Sewer Construction

Sewer construction in LAND DEVELOPMENT projects involves the expenditure of large sums of money. Under that classification details of these improvements are reported.

Ala., Montgomery—Hoggson-Jones Const. Co., N. Perry St., reported, has contract for sanitary sewer in Capital Parkway.

Ark., Mulberry—See Water Works.

Ga., College Park—City, Ed Barrett, Mayor, plans improvements to sewer west side of city; cost \$12,000.

Ky., Benton—See Water Works.

Ky., Louisville—Comms. of Sewerage, reported, let contract at \$80,127 to Connell-Conrad Construction Co., Louisville, for sewer on 38th St., from Greenwood Ave. to Woodland Ave.; at \$34,486 to L. E. Myers Co., 53 W. Jackson Blvd., Chicago, Ill., for extension of Brook St. sewer to Crittenden Drive. 10-10

Ky., Madisonville—March Constr. Co., Evansville, Ind., reported, has contract at \$40,000 for sewers and disposal plant.

La., Alexandria—City, I. W. Sylvester, Engr., reported, considering drainage system; cost \$150,000; may vote on bonds.

Md., Cumberland—City soon receive bids for sewers in alley between Shriver and Shawnee Aves.

Miss., Houston—Dodson & Humphreys, Omaha, Neb., constructing 8 miles of 8, 10 and 15-in. sewers, 160 manholes and flush tanks and rein. conc. disposal plant; C. N. Harrah Engineering Co., Engr., 705 Fourth and First Natl. Bank Bldg., Nashville, Tenn. 10-17

Mo., Norborne—Kirkham & Kallmer, 1400 Pennsylvania Ave., Topeka, Kan., reported, has contract for sewers.



Mo., St. Louis—Bd. of Public Service receives bids Nov. 12 for Harlem Creek Sewer Dist. No. 26; W. W. Horner, Engr.

Mo., St. Louis—Bd. of Public Service received low bids from following for 3 sewer projects: Stiers Bros. Construction Co., 2944 Magazine St., at \$54,000 for Southwestern Dist. No. 1 sewer to drain Watson Road district; Martin & Reilly, at \$18,000, for Dist. No. 2; Stiers Bros., at \$57,000, for Stratford Ave. joint sewer. 10-10

Mo., St. Louis — Streets, Sewers and Wharves Committee approved ordinance for construction of \$420,000 Biddle St. relief sewer and 2 smaller sewer projects on Ohio and Warne Ave.

N. C., Winston-Salem—Glamorgan Pipe & Foundry Co., Lynchburg, Va., reported, low bidder at \$28,884 for 850 tons of c. i. pipe for sewage mains and siphons in Ardmore and Buena Vista.

Okla., Edmond—City, reported, plans sewage disposal plant, 9000 ft. of conc. pipe, Imhoff tank, etc.; cost \$30,000; Riggins & McMaster, Engrs., Oklahoma City. 10-10

Okla., Hooker—Earl Baker & Co., reported, has contract for disposal plant and vit. laterals in Dist. No. 1; cost \$94,000; Benham Engineering Co., Engrs., both Perrine Bldg., Oklahoma City.

Okla., Lookaba—City, J. W. Geming, Clk., reported, plans \$25,000 sanitary sewer system.

Okla., Minco—Sherman Iron Works, 18 E. Main St., Oklahoma City, reported, has contract for \$38,000 sanitary sewers and disposal plant.

Okla., Tulsa—J. H. Maxwell, 12 S. Olympia Pl., reported, has contract at \$34,000 for sanitary sewers in Dist. 288; C. M. Brown, 1315 S. Trenton St., at \$48,000 for sewers, Dist. 290.

Tenn., Nashville—E. T. Lewis, 1902 Elliott Ave., has contract for 51-in. circ. brick tunnel sewer in Glenn Ave. connecting with Bradford Ave. trunk sewer and 15-in. clay pipe sewer in Wood St.

Tex., Columbus — City votes Nov. 26 on \$50,000 bonds.

Tex., Corpus Christi—City plans voting on \$20,000 sewer bonds. See Financial News Column.

Tex., Elgin—City, reported, acquired sewer system from E. L. Dalton and associates.

Tex., Houston—Gayle Bros., Post-Dispatch Bldg., reported, low bidders at \$32,000 for sanitary sewer in Memorial Park.

Tex., LaPorte—City, reported, soon vote on bonds for sewerage system; J. H. Rafferty, Engr., LaPorte. 10-3

Tex., Mineola—City, J. S. McReynolds, Mayor, considering sewer and water bond issue. See Financial News Column.

Tex., Port Neches—See Water Works.

Tex., San Antonio — City, C. I. Swan, Engr., reported, received low bid from N. A. Saigh Co., Builders Exch. Bldg., for Hildebrand Holly Crest sewer.

W. Va., Charleston—City, reported, plans sewers on Capitol St. from Washington St. to river, considering bond issue. See Financial News Column.

### Telephone Systems

Okla., Duncan — Southern Bell Telephone Co., C. W. Mier, Engr., Oklahoma City, probably revise plans for telephone building; I. R. Himlin, Archt., Telephone Bldg., St. Louis, Mo. 10-17

Tex., Houston — Southwestern Bell Telephone Co., B. D. Hull, Engr., let contract to A. Myerson for Wyndown Central office building, Park Pl.; 1 story, 32x45 ft., brick, stucco, cast stone trim; J. W. Dehnert, Supervising Archt.

Va., Waynesboro—State Corporation Comm. approved merger of Waynesboro Mutual Telephone Co. and Clifton Forge Mutual Telephone Co.; to be known as Clifton Forge-Waynesboro Telephone Co.

### Textile Mills

Ky., Middlesboro — Dixie Elastic Goods Corp., capital \$20,000, incorporated; W. V. Tennent, A. C. Carr; continue existing business.

North Carolina — A. F. Dichtenmueller, 2223 Dilworth Rd., W. Charlotte, and associates, reported, plan organizing company to establish full fashioned silk hosiery plant; location not decided; sites in Gaston and Mecklenburg counties under consideration.

N. C., Burlington—A. M. Johnson Rayon Mills, Inc., Dr. W. O. Mitscherling, V. P., reported, plans immediate construction of additional unit to mill; triple capacity; lay mains to Stoney Creek for additional water supply.

N. C., Durham—Y. E. Smith, 1916 Pettigrew St., reported, acquired Yarborough Mills, Inc.; manufacturers novelty cloth.

N. C., Ellerbe — Ragan-Parker Knitting Co., reported, enlarge plant of Ellerbe Knitting Mills, lately acquired, install additional equipment.

N. C., Edenton—Edenton Cotton Mills, reported, electrifying plant; replacing steam power plant with electrical hook up with Virginia Electric & Power Co., Richmond, Va.

N. C., Newland—Hughes & Ray, reported, install machinery for blanket mill.

N. C., North Wilkesboro—Foster & Allen, North Wilkesboro, reported, have contract for second addition for Wilkes Hosiery Mills; 60x100 ft.; 2 story. 7-14

N. C., West Hickory, Hickory—Ivey Weavers, Inc., capital \$600,000, chartered; G. H. and J. S. Geltner, Hickory.

S. C., Greenville—Southern Handkerchief Mfg. Co., capital \$60,000, incorporated; W. R. Thomason; D. A. Boyd.

Tenn., Spring City — Southern Silk Co., capital \$50,000, incorporated; G. B. Gibson, V. Z. Cline.

Tenn., Trenton—Trenton Mills, Inc., E. E. Brignull, Supt., installing heating and sprinkler system; do not contemplate increasing capacity at this time. 10-10

### Water Works

Details of water works improvements in connection with the many LAND DEVELOPMENT operations will be found under that classification.

Ala., Birmingham — Birmingham Water Works plans water main extension.

Ark., Mulberry—Water Works and Sewer Impr. Dist. No. 1, reported, soon call for bids for \$85,000 water works and sewers; Dickinson & White, Engrs., Rector Bldg., Little Rock. 9-26

Ark., Norvell — Water Main Improvement Dist. No. 1, reported, plans water main improvements.

Ark., Stephens — Guy A. Watkins, Hall Bldg., Little Rock, granted water franchise; soon install water system.

Ga., Atlanta—Babcock & Wilcox Co., 85 Liberty St., New York, reported, will probably receive contract at \$66,602 for installing stokers and boilers at water works; bids for ash conveyors rejected; will call for new bids. 8-15

Ga., Griffin—Following additional contracts let for \$400,000 water supply system, Robert and Co., Inc., Engrs., Atlanta; J. S. Schofield's Sons Co., Boundary St., Macon, Ga., at \$17,145 for Unit No. 10, elevated steel tanks; Units 6, 7, and 8 to Burford, Hall & Smith, Red Rock Bldg., Atlanta, for pumps, motors and pump erection, using General Electric motors and DeLaval pumps; entire project will consist of 4 m. g. d. river pumping station, 19 miles of 20-in. main, 4 m. g. d. filtration plant, 1,500,000 gal. clear water reservoir, and 300,000 gal. elevated storage reservoir. 10-17

Ky., Benton—Merkle Contracting Co., 413 City Bank Bldg., Kansas City, Mo., reported, has contract for water works and sewers. 10-17

Ky., Paducah—Paducah Water Works Co., reported, extend water mains.

La., LaFayette—P. Oliver & Son, 114 Bilbo St., Lake Charles, reported, have contract for \$68,000 filtration plant, reservoir, etc. 10-3

Miss., Blue Mountain—City, reported, has preliminary plans by J. B. McCrary Engineering Corp.; Engrs., Atlanta, Ga., for water works and distribution system. 8-8

Miss., Indianola—City plans issuing \$30,000 water works bonds.

Miss., Marks—City, E. L. Boudreau, Clk., reported, receives bids Nov. 5 for water pipe.

Miss., Wiggins—Town receives bids Nov. 5 for gas engine driven fire pumps, well with deep well pump; motor driven fire pump and service pump; connection of all units to existing water works system and construction of pump house; Shaw & Woleben, Engrs., Gulfport.

Okla., Bartlesville — City, reported, plans \$15,000 water works improvements.

Okla., Blackwell — State Conservation Comm., Oklahoma City, reported, granted permission to city to construct dam on Chickasha River; furnish water to city; C. A. Stoldt, County Engr., completed survey.

Okla., Brinkman—Western Construction Co., First National Bank Bldg., Oklahoma City, reported, has contract for water works.

Okla., Carnegie—L. S. Beery, Carnegie, reported, has contract for water works extension.

Okla., Edmond—City, reported, has plans by Riggins & McMaster, Engrs., Oklahoma City, for water works.

Okla., Norman—City, John T. Hamill, Mgr., plans water supply extension.

S. C., Williamson—City defeated \$50,000 water works bonds. 10-7

Tenn., Memphis — City, James Sheahan, Supt. Water Dept., reported, plans additional water supply for annexed territory; drill test wells at Normal Ave. and Southern R. R. tracks.

Tex., Center—City, reported, expend \$20,000 for water main extension.

Tex., Friona—City, reported, plans water works; Devlin Eng. Co., Engrs., 713 Fisk Medical & Professional Bldg., Amarillo.

Tex., Hallettsville — American Cast Iron Pipe Co., Praetorian Bldg., Dallas, reported, has contract for c. i. pipe; Iowa Valve Co., Oskaloosa, Iowa, for valves, hydrants, etc.

Tex., Mineola—See Sewer Construction.

Tex., Port Neches—Scott Shambaugh, 1401 Dowling St., Houston, reported, has contract for water and sewers. 10-3

Va., Bluefield—Federal Water Service Corp., 27 William St., New York, reported, negotiating for city water plant.

W. Va., Charleston — Kanawha Valley Water Co., J. C. Hutsinpillar, V. P. and Gen. Mgr., applied to Kanawha County Court Commr. for 50 yr. franchise; will have hearing Dec. 1. 8-15

### Woodworking Plants

Ky., Mayfield—Baxter Furniture Co., capital \$50,000, incorporated; Baxter Clark, E. H. Stanniger.

Miss., Sardis—Carrier Lumber Co., capital \$100,000, incorporated; M. B. Cooper, James E. Emigh; acquire oak flooring and box shook plants formerly operated by Carrier Lumber & Mfg. Co.

Mo., Kansas City—Frank Purcell Walnut Veneer Co., capital \$50,000, incorporated; Frank P. Pursell, Hugh B. Downey.

Mo., St. Louis—Herman Body Co., Clayton and Newstead St., has permit for \$10,000 body plant, 4416 Clayton St.; 1 story, comp. roof; Murch Bros. Construction Co., Archt.-Contr., Railway Exch. Bldg.

N. C., Conover—Hickory Handle & Mfg. Co., capital \$100,000, incorporated; R. E. Herman, P. E. Yount.

Tex., Houston—Karl L. Dahlgren has permit for 2 buildings for furniture plant, 3512 Polk St.; rein. conc.

### FIRE DAMAGE

Ala., Russellville—Mayor W. W. Ramsay's building, occupied by Louis Diamond Store and Kunn Brothers; loss \$10,000.

Ark., Stephens—Stephens Gin Co.'s plant, owned by R. B. Allen; loss \$9000.

Ga., Brunswick—Downing Co.'s turpentine cup plant; loss \$20,000.

Ga., Macon—Oil mill, Waterville Rd., of Swift & Co., Union Stock Yards, Chicago, Ill.; loss \$25,000.

Ky., Ashland—Three cottages owned by Morton Franklin, 2 owned by Mrs. Sam De Bord, all Railroad Ave.

Ky., Lebanon Junction—Building occupied by post office, Kentucky Service Light Co.'s office and Mrs. J. D. Kelley's apartment; owned by John Collins, Louisville; loss \$10,000.

Ky., Mayfield—W. F. Wright & Co.'s tobacco warehouse; loss \$12,000.

La., Mangham—Planters Gin, owned by George Humble; loss \$10,000.

Miss., Grenada—Planters' Hotel; loss \$35,000.

Miss., Meridian—Residences of E. D. Ken-

yon and C. D. Christian, 1803 and 1807 Twenty-fifth Ave.; loss \$15,000 to \$20,000.

Miss., Picayune—D'Antonio Building, occupied by Corner Drug Store, Byrd's Barber Shop, D'Antonio Cafe, D'Antonio Motion Picture Theater; loss \$100,000.

Mo., Kansas City—Mission Valley Hunt Club in Johnson County; loss \$10,000.

Mo., St. Louis—Store of Porkorny & Co., Inc., Euclid Ave. and Washington Blvd.; loss \$10,000.

N. C., Elon College—Main barn of Christian Orphanage, Charles D. Johnston, Supt.; loss \$10,000.

N. C., Wendell—M. B. Jeffry's residence.

Tenn., Athens—Athens Table & Mfg. Co.'s plant.

Tenn., Riceville—Henry Morris' residence.

Tex., Gilmer—Dormitory at Dickson Colored Orphanage.

Tex., Jasper—Leigh Stone's garage; loss, \$10,500; Sam Campbell, owner.

Tex., Stamford—Clarence Yates' residence; loss \$9,000.

Va., Altavista—W. S. Frazier Milling Co.'s plant on Fifth St.

Va., Richmond—Building, 110 E. Cary St., owned by H. M. Cannon Estate.

\$500,000 church at Davidson College, then select architect; indefinite at present. 0-17

N. C., Greensboro—Florida Ave. Baptist Church erect \$15,000 bldg., Florida Ave. near Portland St.

S. C., Columbia—Baptist Church receives bids Nov. 4 for brick bldg.; conc. footings, comp. roof; J. M. McMichael, Inc., Archt., Builders Bldg., Charlotte, N. C.; following contractors estimating: J. W. Rutherford Constructing Co., 3107 River Drive; J. C. Heslep, Hook Bldg.; Mechanics Constructing Co., Carolina Bank Bldg.; W. A. Cray & Sons, 1226 Sumter St.; J. T. Dabbs, 301 Saluda Ave.; C. M. Lide, Hook Bldg.; Geo. W. Waring, 407 Shandon St.; all Columbia; J. J. McDevitt Co., Builders Bldg.; Geo. W. Waring; J. P. Little & Son, Builders Bldg., all Charlotte.

Tex., Dallas—First Baptist Church, Rev. J. H. Hickerson, Pastor, has broken ground for 4-story brick Sunday school.

Tex., Houston—First Christian Church, Main and Bell Sts., Rev. Harry G. Knowles, Pastor, will postpone \$350,000 remodeling and addition program for several years; at present expend \$30,000 to renovate auditorium, install heating plant, change lighting system, repair organ, lay new roof; Jas. Ruskin Bailey, Archt., Public Natl. Bk. Bldg.; H. M. Sanford, Engr., Esperson Bldg. 6-27

Tex., Waco—First Baptist Church, Dr. W. S. Allen, Chmn., Bldg. Comm., raising funds for \$100,000 Sunday school. 5-30

Va., Leesburg—St. James P. E. Church, Rev. G. Peyton Craighill, Rector, will rebuild north wing damaged by fire at \$25,000 to \$40,000 loss. 10-10

## City and County

Ark., Little Rock—City, P. L. Robinson, Mayor, voted \$300,000 bonds for fire dept., including amount to erect 2 fire stations. 7-18

Ark., McGehee—City Council plans to dispose of present city hall property and erect new city hall and jail.

Ark., Paragould—Rupert C. Wright, Editor, Soliphone, and others, interested in erection of city auditorium.

Fla., Bonifay—Holmes County Bd. of Commrs., J. J. Williams, Chmn., receives bids until Nov. 25 for alterations and additions to jail; \$25,000; plans from W. D. Willis, Archt., Blount Bldg., Pensacola. 10-3

Fla., Jacksonville—City erect \$35,000 fire station, Duval and Jefferson Sts.; brick, 2 stories, 50x85 ft., tile, conc. and wood floors, rein. conc. foundation, tar and gravel roof; Jefferson D. Powell, Archt., Professional Bldg.; drawing plans, date of bids not set. 10-24

Ga., Arlington—Calhoun County, A. L. Miller, County Atty., Edison, voted \$30,000 courthouse bonds. 10-3

Ga., Columbus—City, G. N. Mitchem, City Engr., soon select architect for remodeling of jail and police court bldg.; install cells; remodel 3 bldgs. at city stockade; \$30,000 bonds available. 5-30

Ga., Tifton—City Comm., E. P. Bowen, Chmn., considers erecting municipal bldg.; to include offices, fire dept., library and jail; architect not selected.

La., New Orleans—City has low bid at \$29,522 from J. A. Petty & Sons, Inc., Godchaux Bldg., for Nix Memorial Library, Carrollton Ave.; plans by A. S. Montz, City Archt. 10-17

Miss., Lucedale—George County Bd. of Supvrs. receive bids until Nov. 4 to reinforce, enlarge and repair record room in chancery clerk's office; Hutchisson-Holmes-Hutchisson, Staples Powell Bldg., Mobile, Ala.; and P. J. Krouse, M. & W. Bldg., Meridian, Miss., architects.

Miss., Vicksburg—Warren County Chancery Clk., J. G. Sherard, receives bids until Nov. 6 for repairing and reroofing cells in jail yard and repairing heating system; plans at office Mr. Sherard.

Mo., St. Louis—Board of Public Service, E. R. Kinsey, Pres., plans Colonial type office and assembly bldg.; brick, 2 stories; Albert Osburg, Archt., City Hall; preliminary plans.

Mo., St. Louis—Zoological Bd. of Control has low bid at \$149,556 from McCarthy Bros. Construction Co., 4908 Delmar Blvd., for bird house, Zoological Park; low bid on plumbing and drainage, Thos. J. Sheehan Plumbing Co., 2333 Olive St., at 7584; heating and ventilating bid, Koppen-Smith Heating Co.,

# BUILDING NEWS

## BUILDINGS PROPOSED

### Association and Fraternal

Ala., Florence—Florence Lodge No. 14, A. F. & A. M., Jas. A. Stoves, Chmn., Bldg. Comm., having plans drawn by Lloyd Maffett, Archt., Medical Arts Bldg., for \$150,000 bldg.; stone and brick, conc. foundations, conc. frame, 4 stories, 60x156 ft., conc. floors, steel windows, steam heat; probably soon call for bids. 10-10

Ark., Wynne—Ancient Free and Accepted Masons erect \$30,000 temple; stone trim, brick, 2 stories; E. J. Wolpert, Archt., Jonesboro.

Fla., Pensacola—Frank Marston Post No. 33, American Legion, Quentin Borras, Commr., plans clubhouse.

Ga., Dalton—Dalton Post No. 112, American Legion, Clayton Ault, Commr., considers erecting clubhouse; financing.

Mo., Springfield—Goad-Ballinger Post, American Legion, receiving bids for brick and rein. conc. clubhouse; \$25,000, 2 stories and basement, 86x96 ft., comp. roof, steam heat; Heckenlively & Mark, Archts., Landers Bldg. 2-7

N. C., Tarboro—Eason Tiney Post, American Legion, plans community building.

Okla., Ponca City—American Legion, Dept. of Oklahoma, Milton Phillips, Adjt., Oklahoma City, erect \$25,000 administration bldg.; American Legion Home School; stone and conc., 2 stories; J. J. Forsyth, Archt., Tulsa. 10-11-28

### Bank and Office

Ark., Mountain Home—Farmers & Merchants Bank probably start work early in 1930 on building.

Ga., Atlanta—City, I. N. Ragsdale, Mayor, will probably sign 65-yr. lease of old city hall site to Carling Hotel Co., Carling L. Dinkler, Pres.; Carling company will erect \$2,500,000 commercial office bldg. on site within 3 years; tentative plans by G. Lloyd Preacher & Co., Inc., Archts.-Engrs., Wynne-Claughton Bldg., call for 20-story set-back type structure; double arcade for shops.

Ga., Atlanta—Healey Real Estate & Improvement Co., Milton H. Lieberman, Sec., start work Jan. 1 on \$1,000,000 office bldg., Peachtree and Marietta Sts.; 16 stories, site 87.9x100 ft., 60x40-ft. open air court in rear, 4 passenger elevators; Pringle & Smith, Archts., Norris Bldg.

La., Baton Rouge—City Comsn. Council receives bids until Nov. 5 for brick bldg. for city dock offices; 1 story and basement, 81x36 ft., comp. roof, steam heat; \$12,000 to \$15,000; plans from Lewis A. Grosz, Archt., Raymond Bldg.

La., Monroe—Jas. A. Noe, 106 Fairview St., C. H. McHenry, Bernhard Bldg., both Monroe, O. E. Hodge, Ruston, and others, selected Eugene John Stern, Little Rock, as architect for \$750,000 Medical Arts Bldg.; Jackson and Harrison Sts.; brick, stone and terra cotta, 11 stories, 70x172 ft., 2 main entrances; work probably start in 60 to 90 days. 10-24

Miss., Jackson—Guarantee Bond & Mortgage Co., Merchants Bk. Bldg., has low bid at \$32,000 from C. T. Harris, Durant, for 2-story, 70x120 ft., brick, stone trim office building, Yazoo and President Sts.; C. H. Lindsley, Archt., Lamar Life Bldg. 10-3

S. C., Clinton—Wm. Bailey & Sons remodel and enlarge bank bldg.; semi-fireproof, brick, 2 stories, 46x22 ft., hardwood floors, erator, Winston-Salem, will raise money for

tar and gravel roof; Beacham & LeGrand, Archts., Peoples Natl. Bk. Bldg., Greenville; plans ready about Nov. 10.

Tenn., Knoxville—Southern Bell Telephone & Telegraph Co., E. Frank Garratt, Dist. Mgr., remodel Daylight Bldg., Union Ave. and Walnut St., for business offices; walnut woodwork and fixtures.

Tex., Dallas—Frank O. Wittchell, Archt., and Hale Davis (real estate), plan 20-story office bldg. for oil firms, Young and Akard Sts.; site 77x100 ft.; \$1,000,000; sketches by Lang & Wittchell, Archts., all American Exch. Bank Bldg.

Tex., San Antonio—Sam Houston State Bank & Trust Co., Grayson St., receiving bids for rein. conc. vault; 8x10 ft., 20-in. walls; Harvey P. Smith, Archt., Natl. Bank of Commerce Bldg.

Va., Richmond—Federal Reserve Bank of Richmond considers erecting annex, Ninth St.

### Churches

Ark., Market Tree—Roman Catholic Church, John Brunner, Chmn., Bldg. Comm., considers erecting 1-story brick veneer building.

Ark., North Little Rock, Little Rock—St. Annes R. C. Church, Rev. John A. McCauley, Pastor, considers erecting 1-story brick veneer bldg.; work probably start around middle of 1930.

Ark., Pine Bluff—First Presbyterian Church, W. H. McLeod, member, Bldg. Comm., plans to remodel bldg.; \$10,000 to \$15,000; new roof, lighting system, organ, etc.

Fla., Bradenton—First Church of Christ, Scientist, plans bldg., 15th St. and Seventh Ave.

Ga., Dahlonega—Methodist Episcopal Church, South, completed foundation for \$11,000 bldg.; brick veneer, 2 stories, 33x68 ft. and 26x36 ft., pine floors, comp. shingle roof; plans by Bd. of Extension of M. E. Church, South, Louisville, Ky.; J. E. Tallant, Contr., Dahlonega. 10-24

Ky., Lexington—Central Christian Church, Dr. A. W. Fortune, Pastor, remodel bldg. and erect addition; \$150,000; auditorium seat 700 additional; 3-story Sunday school and 3-story recreational bldg.; gymnasium, locker rooms, banquet hall seat 400; raising funds.

La., New Orleans—St. Leo The Great R. C. Church, Rev. Vincent Prats, Pastor, rejected bids for bldg., Paris Ave. and Abundance St.; revising plans; call new bids about 2 weeks; separate bids on plumbing, heating, elect. wiring, organ and furniture; brick, hollow tile, stone trim, steel frame, 30x100 ft., 2 balconies, choir balcony, seat 850, pile foundation, tile roof, copper sheet metal, orna. struct. steel and iron, tile and tile-text floors; plans by Paul G. Charbonnet, 830 Union St. 10-10

Md., Colgate—St. Peters E. L. Church, Rev. Luke Schmucker, Pastor, erect \$50,000 bldg.; seat 400.

Md., Mount Ranier—Protestant Episcopal Church, care H. W. Cutler, Archt., 1800 E St., N. W., Washington, D. C., erect \$35,000 bldg.; stone, 1 story; sketches.

N. C., Davidson—North Carolina Synod, Presbyterian Church, Dr. J. S. Foster, Moderator, Winston-Salem, will raise money for



2628 Olive St., \$34,262; wiring, Vierheller Electric Co., 1111 Olive; John E. Wallace, Archt., Primate House. 10-3

N. C., High Point—City Council having plans drawn by Harry Barton, Archt., Jefferson Bldg., Greensboro, to enlarge city hall; about \$200,000. 6-20

Tenn., Knoxville—City plans 2 fire stations, Lyon's View and Kingston Pike intersection, and Bell Morris School campus; \$32,000 available. 10-3

Tex., Dallas—City, J. Waddy Tate, Mayor, tentatively considering erecting \$1,000,000 addition to city hall; \$1,000,000 bonds voted 2 years ago for auditorium; plan would provide 2 additional stories to present city hall and erection of auditorium section, to seat about 5000, adjoining. 12-22-27

Tex., Houston—City, W. E. Monteith, Mayor, receives bids until Nov. 6 at office City Sec. for Fire Station No. 24, Palmer St. and Bell Ave.; plans by Hamp L. Shaw, City Engr. 10-3

Tex., Junction—Kimble County soon receive bids for brick and rein. conc. courthouse; \$100,000, 2 stories; Henry T. Phelps, Archt., Hicks Bldg., San Antonio. 10-3

Tex., Mineola—City, J. C. McReynolds, Mayor, may call election on about \$100,000 bonds, including \$30,000 for city hall; probably brick, 1 story, include auditorium to seat 1500, fire station and jail. 12-22-27

Tex., San Antonio—City has low bid at \$20,325 from W. H. Wolter for Roosevelt Park branch library; John M. Marriott, Archt.; Lilly-Drought, Engrs., both Frost Bldg. 10-10

Tex., San Antonio—City, Fred Fried, City Park Commr., opens bids Nov. 18 for Venetian blinds and equipment for Carnegie library; Herber S. Green, Archt., Alamo Bk. Bldg.; W. E. Simpson & Co., Const. Engr., Natl. Bk. of Commerce Bldg.; Kroeger-Brooks Construction Co., Frost Bldg., has \$250,000 remodeling contract. 7-25

Tex., Sanderson—Terrell County Bd. of Commrs. opens bids Nov. 12 to remodel courthouse and jail; brick, stucco and conc., 2 and 3 stories; Henry T. Phelps, Archt., Hicks Bldg., San Antonio. 7-25

Va., Norfolk—City Council repair city jail; \$15,000. 10-3

### Dwellings

Ala., Birmingham—Thos. Chalmers, 755 Parkway, erect \$30,000 residence, Rockridge Park; 2 stories, 3 tile baths, slate roof, vapor steam heat; Chas. H. McCauley, Archt., Jackson Bldg.; bids Oct. 29. 10-3

Ala., Birmingham—Dr. Chalmers Moore, Empire Bldg., having plans revised for \$25,000 residence, Mt. Brooke Estate No. 68; brick veneer, 2 stories, 115 x 47 ft., oak and tile floors, conc. foundation, slate roof; Jacob E. Salie, Archt., Empire Bldg. See Want Section—Building Material and Equipment. 10-24

Ala., Tuscaloosa—Harvey P. Kennedy erect brick veneer residence; 2 stories, comp. roof, tile terrace; Miller & Martin, Archts., Title Guar. Bldg., Birmingham. 10-3

Ala., Talladega—Brewer Dickson erect red shingle siding residence; 1 story, hardwood and tile floors, comp. roof, furnace; Miller & Martin, Archts., Title Guar. Bldg., Birmingham. 10-3

Ga., Atlanta—W. B. Winn, 845 Virginia Ave., N. E., erect number dwellings; frame, comp. roofs. 10-3

Ga., Augusta—I. S. Peebles, Jr., Marion Bldg., erect brick veneer residence; 1½ stories, 68x38 ft., hardwood floors, slate roof; Scroggs & Ewing, Archts., S. F. C. Bldg.; bids in. 10-3

D. C., Washington—D. C. Gruver, 927 Fifteenth St., N. W., erect 10 dwellings, 3811-25 Benton St., N. W., after plans by Geo. T. Santmyers, Archt.; brick, 2 stories; \$70,000. 10-24

D. C., Washington—Geo. Maurice Morris, 815 Fifteenth St., N. W., erect \$85,000 residence; brick, 2½ stories; W. Duncan Lee, Archt., 210 E. Franklin St., Richmond, Va. 10-3

Fla., Mount Dora—Leroy C. Smith erect \$12,000 brick veneer residence; 2 stories and basement, 40x42 ft., irregular shape, oak floors, conc. foundation, stained shingle roof; owner to receive bids; Witman & Royer, Archts., 36 E. Market St., York, Pa. See Want Section—Building Material and Equipment. 10-24

Fla., Palm Beach—Chas. E. F. McCann, 6 Golf View Rd., erect \$40,000 patio and addition to residence; Marion Sims Wyeth, Archt., Wyeth Bldg. 10-3

Ga., Douglas—Miss Ava Peterson erect stucco and hollow tile residence; 1 story, 10-3

hardwood and tile floors, abestos shingle roof; Walter P. Marshall, Archt., Savannah Bk. & Tr. Co. Bldg., Savannah; plans about Nov. 1. 10-3

Ky., Frankfort—R. F. Bradley, Archt.-Bldr., 123 E. Fourth St., erect residence, Logan St.; 2 stories, 24x49 ft., pine floors, stone foundation, asphalt shingle roof, plans and constr. by owner. 10-24

Ky., Mayfield—Jones Griffith erect \$12,000 brick veneer residence; stone trim, 1 story, 46x36 ft., hardwood floors, tile bath, comp. roof, hot water heat; Hubert T. McGee, Archt., Fidelity Bk. Bldg., Memphis, Tenn.; preliminary plans. 10-24

Md., Baltimore—A. Henderson McLean, Harrison Rd., erect 2½-story English type residence, Poplar Hill; 11 rooms, 4 baths, 2-car garage; Howard F. Baldwin, Archt., 339 St. Paul St. 10-3

Miss., Benolt—Sam T. Speaks erect \$12,000 residence; brick veneer, tile roof; M. M. Allsop, Archt., Clarksdale. 10-3

Mo., St. Louis—Wm. K. Gardner, Upper Ladue Rd., plans country residence, Ladue Rd. near Warson Rd.; work in Spring. 10-3

Mo., St. Louis—Harry J. Rehme erect English type residence, Lake Forest; 8 rooms, 3 baths, 3-car garage and servants' quarters; Maritz & Young, Archts., Chemical Bldg. 10-3

Mo., St. Louis—Edw. B. Kelley, Archt., 7473 Delmar Blvd., receives bids until Nov. 1 for brick dwelling, Holly Hills; 2 stories and basement, 39x42 ft., hardwood and terrazzo floors, metal lath, vapor heat, copper sheet metal work, art and leaded glass. 10-3

Tenn., Knoxville—W. A. Nelson, Cedar Lane, Central Ave. Park, erect 5 dwellings, Ailor Ave.; frame, 1 story and basement, 5 rooms, hot air heat; \$10,000. 10-3

Tenn., Memphis—Dr. J. O. Gordon, Medical Arts Bldg., erect brick veneer residence, Central and Peachtree Sts.; 2 stories, hardwood floors, 2 tile baths, tile roof; J. Frazer Smith, Archt., Goodwyn Inst. Bldg.; soon ready for bids. 10-3

Tenn., Memphis—G. C. Sanders, 565 Parkway, East, considers erecting brick veneer residence, Chickasaw Gardens; 2 stories, hardwood floors, tile baths, comp. or tile roof. 10-3

Tenn., Memphis—Theo. W. Ohman, Fidelity Bk. Bldg., erect brick veneer residence, Hedgemoor; 2 stories, 51x35 ft., 2 tile baths, hardwood floors, stone trim; Claude Northern, Archt., Fidelity Bk. Bldg.; bids in. 10-3

Tenn., Nashville—J. E. Lamblin, 1303 16th Ave., S., erect brick, stoneware and stone residence, Ashwood Ave.; 1 story and basement, 28x55 ft. and 9x94 ft.; John H. Parmelee, Archt., Nashville Tr. Bldg.; bids in. 10-3

Tex., Beaumont—Geo. J. Roark, 1805 Broadway, plans residence, Caldwell. 10-3

Tex., Big Spring—Albert M. Fisher opens bids Nov. 4 at office Glenn C. Wilson, Archt., Milam Bldg., San Antonio, for duplex; brick veneer, 1 story, about 37x50 ft., rein. conc. foundation, 8 rooms. 10-24

Tex., El Paso—Mrs. M. H. Welch, 3131 Wheeling St., erect \$10,000 residence; stucco and brick, 7 rooms. 10-3

Tex., El Paso—Dr. Harry Lee erect residence, 2619 Altura Blvd. 10-3

Tex., Fort Worth—Rufus J. Lackland, 2744 Hemphill St., erect \$10,000 rock veneer residence, 3305 Avondale St. 10-3

Tex., Fort Worth—Mrs. E. M. Knight erect \$10,000 brick and tile residence, Simonsale St. 10-3

Tex., Houston—G. G. Gannon, care Baker, Botts, Parker & Garwood, Esperson Bldg., erect Georgian type residence, River Oaks. 10-3

Tex., Kerrville—T. E. Smith started work on 5 brick veneer dwellings, Westland Addition; \$25,000. 10-3

Tex., McAllen—A. J. Campbell, Marshfield, Wis., erect \$20,000 Colonial residence; brick and hollow tile, 2 stories, 10 rooms, hardwood, tile and slate floors, 2-car garage, laundry and servants' quarters; A. H. Woolridge, Archt., McAllen. 10-3

Tex., Raymondville—R. R. Clark erect Italian type residence; hollow tile and stucco, rein. conc. foundation, 2 stories. 10-3

### Government and State

D. C., Washington—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., has low bid at \$12,890 from J. Geo. Bensel Co., 3005 Shannon Drive, Baltimore, Md., for skylights in Treasury Bldg. 10-3

Fla., Tampa—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., has low bid at \$307,740 from J. L. Crouse, American Bank Bldg., Greensboro, N. C., for extension and remodeling of post office, 10-3

custom and courthouse building; low bid for elevators, Millner Co., 1706 N. 12th St., St. Louis, Mo., at \$12,800; low bid for models from Studio of Architectural Sculpture, 1134 19th St., N. W., Washington, at \$164. 10-17

N. C., Fort Bragg—War Dept. receives bids in triplicate Nov. 21 at office Constructing Quartermaster, Fort Bragg, for 4 field officers' and 10 company officers' quarters. 5-2

Okla., Oklahoma City—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., reported, drawing final plans for \$1,100,000 addition to post office; fireproof, brick, stone and rein. conc., 8 stories and basement, 150x110 ft. 11-29-28

Tenn., Columbia—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., opens bids Nov. 25 for remodeling and enlarging post office; stone trim, brick, 1-story, 45.6x25 ft., \$25,000; drawings from Custodian at site or from office Supvg. Archt. 10-3

Tex., Corsicana—Following contractors estimating on misc. remodeling and finishing of post office, bids Nov. 7 by Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C.; Algernon Blair, First Natl. Bank Bldg., Montgomery, Ala.; Thos. W. Cissell, 1121 W. Union Blvd., Bethlehem, Pa.; Geo. Griffiths Construction Co., Arcade Bldg.; Wm. MacDonald Construction Co., Syndicate Trust Bldg., both St. Louis, Mo.; W. D. Lovell, 1415 Eighth St., S. E., Minneapolis, Minn.; F. F. Fullerton, Tyler, Tex.; Theriault Contracting Co., 534 E. Johnson St., Philadelphia, Pa.; R. F. Ball Construction Co., 608 Tyler St., Fort Worth, Tex. 10-17

Tex., Corsicana—State Bd. of Control, R. B. Walthall, Chmn., Austin, receives bids until Nov. 5 for power plant, State Orphans Home; brick and conc., 1 story, 38.6x71.4 ft., rein. conc. foundation, cement and terrazzo floors, steel roof beams, 20-yr. bonded built-up roof; 320 lin. ft. of 4x6-ft. and 335 lin. ft. of 2.6x3.6-ft. conc. tunnels; \$40,000; separate bids on heating, plumbing and wiring; Dewitt & Washburn, Archts., Kirby Bldg., Dallas. 9-19

Tex., Waco—State Bd. of Control, R. B. Walthall, Chmn., Austin, soon have plans completed for \$20,000 employees' dwelling and \$19,000 hospital, State Home for Neglected and Dependent Children; Birch D. Easterwood, Archt., Liberty Natl. Bank Bldg., Waco. 9-12

W. Va., Morgantown—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., plans post office improvements; \$80,000; work may start in Spring. 10-3

### Hospitals, Sanitariums, Etc.

Ala., Montgomery—Dr. Jas. Fitz Hill, Shepherd Bldg., erect \$45,000 hospital, Church and Clayton Sts.; brick, struct. steel, conc., 2 stories, comp. roof; Okel & Cooper, Archts.; drawing plans. 10-3

Ark., Little Rock—City Council has plans by Thompson, Sanders & Glinocchlo, Archts., Hall Bldg., for \$50,000 addition to General Hospital. 10-3

D. C., Washington—Constructing Quartermaster, Army Medical Center, probably take bids in Dec. for 3-story brick nurses' quarters, Walter Reed General Hospital, Army Medical Center; \$300,000. 10-3

D. C., Washington—Additional firms estimating on alterations to quarters, Naval Hospital, bids Nov. 6 by Bureau of Yards and Docks, Navy Dept.; Martin Bros., 1341 Connecticut Ave., N. W.; Henry B. Davis, 1311 G St., N. W.; McKay & Langstroth, 2300 L St., N. W.; Bahen & Wright, 916 Rhode Island Ave., N. E.; all Washington; J. Geo. Bensel Co., 3005 Shannon Drive, Baltimore, Md.; W. S. King, Inc., 17th and Tioga Sts., Philadelphia, Pa. 10-24

Fla., Lake City—U. S. Veterans Bureau, L. H. Tripp, Chmn., Constr. Div., Room 764, Arlington Bldg., Washington, D. C., receives bids in triplicate until Nov. 26 for utilities storehouse and addition to mess and kitchen bldg., including road extensions and grading, U. S. Veterans Hospital; work includes excavating, rein. conc. constr., brick work, hollow tile, steel shelving, metal toilet stall partitions, fireproof vault front, iron work, steel sash, built-up roof, plastering, carpentry, window shades, insect screens, painting, glazing, hardware, plumbing, heating, elect. work, outside sewer and water distribution systems and elect. service connections drawing from Constr. Division. 10-3

La., Bastrop—Dr. W. V. Garnier, operating Morehouse Parish Hospital, purchased Morehouse Natural Gas Co. bldg.; remodel for clinic; 20 beds, operating and X-ray rooms, elevator. 10-3

La., Monroe—Dr. S. D. Hill and associates consider erecting hospital for colored; brick, 50 beds. 10-3

Mo., Excelsior Springs—Additional firms estimating on bldgs. and utilities, U. S. Veterans Hospital, bids Nov. 12 by U. S. Veterans Bureau, Arlington Bldg., Washington, D. C.; Bracker Construction Co., Builders Exchange, Minneapolis, Minn.; W. P. Thurston Co., Inc., Richmond Trust Bldg., Richmond, Va.; Rau Construction Co., 2400 Harrison St.; Natkin Engineering Co., 314 W. Tenth St.; J. E. Dunn Construction Co., Reliance Bldg., all Kansas City, Mo.; Westinghouse Electric & Manufacturing Co., Washington Bldg.; Truscon Steel Co., Hill Bldg., both Washington; Shapleigh Hardware Co., 315 Washington St.; Johns-Manville Corp., 17th and Locust Sts., both St. Louis, Mo.; Magee & Ganley Bros. Co., 116 W. Sixth St., St. Paul, Minn.; W. J. Baker Co. (screens), Newport, Ky.; Ornamental Iron Works, Akron, O.; Richmond Fireproof Door Co., Richmond, Ind.; Pennsylvania Slate Institute, Pen Argyle, Pa.; Morrison-Skinner Co. (screens), Wakefield, Mass.; David Lupton's Sons Co. (windows), 16th & Walnut Sts., Philadelphia, Pa.; Decatur Cornice & Roofing Co., Albany Station, Decatur, Ala.; Vendor Slate Co., Easton, Pa.; D. G. Burnett, Box 353, Fort Smith, Ark.; Walter Petersen, Wilkinson Bldg., Omaha, Neb.; Armstrong Cork & Insulation Co., Lancaster, Pa. 10-24

S. C., Florence—Dr. R. J. Wilson interested in erection of hospital for negroes.

Tex., Beaumont—Dr. J. B. Mitchell, Service Drug Co. Bldg., receiving bids for 1-story brick clinic, Calder Ave.; Colonial type; Ben E. Irby, Archt., Goodhue Bldg.

Tex., El Paso—Masonic Hospital Bd., Oscar Allen, member, plans \$300,000 addition; 100 beds.

Tex., San Antonio—State Bd. of Control, R. B. Walthall, Chmn., Austin, soon call for bids for conc. porches, San Antonio State Hospital; plans complete; 340x24 ft., 3 stories, monolithic floors, 20-yr. bonded roof; \$25,000; Leo M. J. Dielmann, Archt., 306 E. Commerce St., San Antonio. 8-15

Tex., Tyler—Smith County, Will B. Pace, County Judge, votes Nov. 21 on \$200,000 hospital bonds. 10-24

### Hotels and Apartments

D. C., Washington—David L. Stern, 1412 Eye St., N. W., has permit for \$500,000, 5-story, brick, stone and conc. apartment hotel, 3620 Sixteenth St., N. W.

Fla., Hollywood—Hollywood Beach Hotel, Wm. M. Kimball, Mgr., erect \$30,000 addition to main dining room.

Fla., Miami Beach—A. C. Bloomer erect \$25,000, 4-family apartment, ocean front near 42nd St.; A. Fraser Rose, Archt., Collins Ave.; also plans building on ocean front near 40th St.

Fla., Miami Beach—London Corp., B. H. London, Pres., 702 13th St., ready for bids for \$60,000, 3-story, rein. conc. and conc. block, 50-room apartment, Collins Ave. between 7th and 8th Sts.; tile, oak, cement and tile floors, stone trim; Wade & Oemler, Archts., Exchange Bldg., Miami; contractors estimating; O'Neill-Orr Construction Co., 212 N. E. Fourth St.; R. G. Witters Co., 1745 S. W. Sixth St.; Continental Construction Co., 814 Exchange Bldg., all Miami.

Miss., Browns Wells—A. H. Alvis Co. having plans prepared by N. W. Overstreet, Miss. Fire Insurance Bldg., Jackson, for \$150,000, 2-story, fireproof hotel at Browns Wells resort, 2 mi. from Hazelhurst.

Miss., Corinth—P. S. Weaver erect \$50,000, 3-story, brick apartment; comp. roof, hardwood floors, steam heat; Polk Agee, Archt., Fidelity Bldg., Memphis, Tenn.

Miss., Vicksburg—Ernest Thomas soon let contract for \$60,000, 2-story, 84x34 ft., brick, 12-apartment, Cherry and Harris Sts.; M. J. Donovan, Archt., First Natl. Bk. Bldg. 10-24

Mo., St. Louis—Edw. B. Kelley, Archt., 7473 Delmar Blvd., prepared plans for 2-story and basement, 28x33 ft., brick apartment; hardwood floors, slate roof, vapor heat.

N. C., Asheville—John H. Lange Estate, Commerce Union Trust Co., Trustee, has plans by Henry I. Gaines, Flat Iron Bldg., for \$100,000, 4-story, 75-room hotel on site Glen Rock Hotel, Depot St.; 300 ft. frontage, 9 storerooms on ground floor; rein. conc., brick and tile, comp. roof, stone trim.

N. C., Charlotte—Home Real Estate and Guaranty Co., 219 N. Tryon St., has permit for \$25,000, 8-room, brick veneer apartment, 415 Ardley Road.

Okla., Oklahoma City—R. C. McCormick, 1333 E. 16th St., erect \$15,000, 2-story and basement, brick veneer apartment, 1108-10 W. 11th St.

S. C., Florence—Following contractors estimating on \$600,000, 12-story and basement, 170-room hotel for W. R. Barringer Hotel Co., bids to be announced later: Seaboard & Southern Construction Co., Hildebrandt Bldg., Jacksonville, Fla.; Claussen & Lawrence Construction Co., 1394 Gwinnett St., Augusta, Ga.; W. P. Rose Co., Goldsboro, N. C.; John W. Hudson, Jr., Professional Bldg., Raleigh, N. C.; Angle-Blackford Co. and Walter Kidde Construction Co., Inc., Jefferson Bldg., Greensboro, N. C.; Morris-McKoy Building Co., Finlay Bldg., Greenville, S. C.; Brown-Harry Co., 237 E. Main St., Gastonia, N. C.; J. C. Heslep, Hook Bldg., and W. A. Cray & Son, 1226 Sumter St., both Columbia, S. C.; North Eastern Construction Co., Nissen Bldg., Winston-Salem, N. C.; Southeastern Construction Co., 210 W. Second St., and J. A. Jones Construction Co., Commercial Bank Bldg., both Charlotte, N. C.; John W. Cowper Co., State Planters Bank Bldg., Richmond, Va.; V. L. Nicholson Co., 102 W. Clinch Ave., Knoxville, Tenn.; Consolidated Engineering Co., 20 E. Franklin St., Baltimore; H. A. Underwood & Co., Archts.-Engrs., Hotel Carolina Bldg., Raleigh. 9-12

Tenn., Memphis—J. D. Scott, Empire Bldg., erect 2-story brick apartment; hardwood floors, comp. built-up roof.

Tex., Austin—Maggie, Clara and Ida Gillespie have permit for \$12,500, 2-story, brick, 6-apartment, 705 W. 11th St.

Tex., Austin—Dudley Looke, of Looke's Cafe, 815 Congress St., has permit for \$11,662, 10-room brick veneer apartment, 3305 Speedway.

Tex., Bakersfield, Pecos County—Dr. J. A. Martin, Fort Stockton, plans hotel.

Tex., Dallas—A. Bunn has permit for \$12,500, brick veneer, 32-room apartment, 4104-06 Prescott St.

### Miscellaneous

D. C., Washington—Following have permits for \$418,000 worth of market buildings at Union Market Terminal in Patterson tract in Northeast Washington: Charles H. Tompkins to erect five 2-story and one 3-story, brick, conc. and stone buildings, 401-23 Morse St., \$90,000; James Kalonturos, 2-story, brick, conc. and stone building, 1288 Fifth St., N. E., \$10,000; George Deondes, two 2-story, brick, conc. and stone buildings, 1290-92 Fifth St., N. W., \$20,000; other market building permits granted to: Nathaniel J. Ward, 927 B St., N. W., one at 1284-86 Fifth St., N. W., \$24,000; W. H. Harrison, 913 Seventh St., N. E., two, 1276-78 Fifth St., N. E., \$24,000; Henry J. Klein, 927 B St., N. W., one, 1280-82 Fifth St., N. E., \$20,000; Raymond T. Faunce, 604 Pennsylvania Ave., N. W., one, 1274 Fifth St., N. E., \$10,000; Thomas A. Cannon, 606 Pennsylvania Ave., N. W., one, 1270-72 Fifth St., N. E., \$20,000; F. B. Crave, Jr., one, 1320-22 Fifth St., N. E., \$20,000; Edward Widmyer, 2942 Bellevue Terrace, N. W., one, 1316 Fifth St., N. E., \$20,000; W. H. Harrison Co., 900 B St., N. W., one, 1328-30 Fifth St., N. E., \$20,000; W. Charles Heilmuller, 923 B St., N. W., three, 1300-08 Fifth St., N. E., \$100,000; F. Denwood Parrish, 901 B St., N. W., two, 1324-26 Fifth St., N. E., \$20,000; George C. Heider, 3507 12th St., N. E., one, 1332 Fifth St., N. E., \$10,000; E. H. Heilmuller and J. L. Sherwood, Jr., Riggs Market, one, 1310-14 Fifth St., N. E., \$20,000; O. Clagett, 517 C St., N. E., one, 1334 Fifth St., N. E., \$10,000.

Fla., Palmetto—Palmetto Woman's Club erect \$12,000, 1-story clubhouse; Fred Kermod, Palmetto, and J. H. Johnson, Bradenton, Asso. Archts.

Ga., Warm Springs—Georgia Warm Springs Foundation, Inc., Gov. Franklin D. Roosevelt, Chmn., 120 Broadway, New York, soon call for bids for number of units; each 1 story, 100x40 ft., frame and brick.

Mo., LaMonte—Ozark Recreation Club, care Jesse Sprague Realty Co., Chemical Bldg., St. Louis, erect 2½-story and basement, 215x34x150x34 ft., U shape, brick and stone clubhouse in 20,000-acre development west of Highway No. 61; plans include clubrooms, kitchen, bowling alleys, billiard rooms, gymnasium and dormitory accommodate 300 guests; shingle roof; also provide swimming pool, polo grounds, golf course, tennis courts. 10-3

Mo., St. Louis—Robert J. Ambruster, 4468 Washington Bvd., erect \$100,000 mortuary, Clayton Road and Concordia Drive.

Okla., Tulsa—Tulsa County Comsn. authorized \$500,000 bond election for erection auditorium and livestock building and improvements to Tulsa State Fairgrounds; John T. Kramer, Pres., Fair Board. 10-10

Tenn., Memphis—Women's Evergreen Civic Club erect community house in Williamson Park.

Tenn., Memphis—Tri-State Fair Assn., Fairgrounds, erect \$50,000 dance hall.

Tex., Austin—Judge Ireland Graves, Scarborough Bldg., Paul O. Sims, Agent, has permit for \$30,000 community center, 19th and Lavaca Sts.; bids in about 10 days.

Tex., Mercedes—American Rio Grande Land & Irrigation Co. plans clubhouse on Llano Grande Lake; hollow tile, conc., brick and stucco; also erect number cottage type buildings; Spanish design; R. Newell Waters, Archt., Weslaco.

Tex., San Antonio—Cavaller Saddle, Inc., R. W. Morrison, Pres., receives bids Nov. 5 at office Martin Elckenroht & Bartlett Cooke, Maverick Bldg., Archts., for \$25,000, 1-story, rein. conc., hollow tile and stucco club building, San Pedro St. and Basse Road; east stone trim, tile roof, Spanish type. 9-19

Va., Norfolk—Norfolk Society of Arts, Mrs. Wm. Sloane, Pres., Tanners Creek, plans erecting building for museum of arts and sciences in Lee Park at Mowbray Arch and Yarmouth St.

### Railway Stations, Sheds, Etc.

Ala., Demopolis—Southern Rwy. Co., G. L. Sitton, Ch. Engr., M. W. & S. Charlotte, N. C., repair freight station recently damaged by fire.

Ga., Athens—Georgia Railroad, Augusta, plans brick passenger depot; brick, struc. steel, tile and comp. roof.

### Schools

Ala., Auburn—Alabama Polytechnic Institute, Dr. Bradford Knapp, Pres., call for bids in few days on three buildings to cost \$700,000; Bibb Graves Administration Building, Victor H. Hanson Auditorium and Textile Building; all 3 stories, rein. conc. and struc. steel, brick comp. and slate roofs, tile and terrazzo floors, steam heat; Warren, Knight & Davis, Archts., Protective Life Bldg., Birmingham. 9-26

Ark., Fort Smith—Church of Immaculate Conception, Rev. Patrick Horan, Pastor, 210 S. 13th St., has low bid at \$144,000 from H. G. Buchanan, Albert Pike, for 2-story and basement, 135x189 ft., brick, stone, rein. conc. and steel grade school, 13th and A Sts.; plumbing and heating, \$27,000, Hartmeier Bros., 100 N. Fifth St.; elect. wiring, Edelmann Electric Co., 1103 Garrison St.; Bassham & Wheeler, Archts., Kennedy Bldg.; W. C. Roads, Struc. Engr., Commercial Bldg., Tulsa, Okla. 10-17

Ark., Hot Springs National Park—Bd. of Directors, Special School Dist. of Hot Springs, Ed. Bardley, Pres., erect \$150,000, 2-story, brick, 11-classroom Malvern Avenue School; \$50,000, 2-story, 8-classroom South Hot Springs School, 10-room annex to Oak Street School and improvements to other buildings; Irvin D. McDaniel, Archt., First Natl. Bank Bldg., Memphis, Tenn.; bids in. 10-10

Ark., Newport—School Dist. No. 36, Jackson County, W. H. Ray, erect 1-story, brick veneer, 5-classroom school; bids in.

Fla., Highland City—Polk County Bd. of Public Instruction, Bartow, erect \$25,000, 165x100 ft., 10-classroom and auditorium, brick school; election about Nov. 15 on bonds. 9-26

D. C., Washington—Department of Interior, John H. Edwards, Asst. Sec., has low bid at \$273,570 from J. L. Crouse, American Bank Bldg., Greensboro, N. C., for Women's Dormitory No. 1, Howard University; 5 stories, brick; A. I. Cassell, Archt., for University. 10-10

Ga., Canton—Bd. of Education selected A. Ten Eyck Brown, Forsyth Bldg.; brick, stone trim, comp. roof, Atlanta, as architect for \$100,000 high school. 10-3

Ga., Decatur—Agnes Scott College, Dr. J. R. McCain, Pres., receives bids Nov. 12 for \$250,000, 5-story classroom building; 164x50 ft., with 62x112 ft. wing, rein. conc., struc. steel, brick and tile, Indiana limestone, slate or stone roof, interior marble, tile and terrazzo work; Edwards & Sayward, Archts.; Robert B. Logan, Asso. Archt., both Marietta Bldg., Atlanta; Robert S. Fiske, Consltg. Engr., Healey Bldg., Atlanta; following contractors estimating: Williams Construction Co.; Arthur Pew, Jr.; T. C. Wesley & Son; Grahn Construction Co., all Red Rock Bldg.; J. S. McCauley Co., Norwood Griffin and Gilbert Beers, all Bona Allen Bldg.; Wagar & Co. and Brazell & Miller, both Morris Bldg.; Griffin Construction Co., 462 Spring St., N. W.; National Construction Co., Glenn Bldg.; Capitol Construction Co. and Arthur R. Myers Co., both McGlawn-Bowen Bldg., all Atlanta; J. J. McDevitt Co., Charlotte, N. C. 10-24

Ga., Milam—Milam Consolidated School Dist. voted \$25,000 bonds for school building. 10-10



Ga., Sycamore—Bd. of Education, C. L. Royal, Chmn., erect \$40,000, 1-story and basement, brick veneer, struc. steel, 12-classroom and auditorium grammar school; comp. roof, wood and tile floors; Lockwood & Poundstone, Archts., and Edw. F. Billie, Asso. Archt., both Marietta Bldg., Atlanta.

Ga., Tennesse—Tennille School Dist. Trustees receive bids Nov. 5 for \$50,000, 2-story, brick school; comp. roof; W. Elliott Dunwoody, Archt., 460 Broadway, Macon; following contractors estimating: Griffin Construction Co., 452 Spring St., N. W.; Arthur Few, Jr., Red Rock Bldg., both Atlanta; Chess W. Jones & Son, 25 Wall St.; W. A. Stillwell & Son; W. D. Griffin, Macon Natl. Bank Bldg.; Geo. A. Thomason & Co., all Macon; W. D. Fann, Tennille; John T. Ragan & Co., Vidalia; Simons & Calhoun, Tarrytown. 10-3

Ky., Hopkinsville—School Bd. erect gymnasium and cafeteria; \$40,000; bids in Oct. 31.

La., Athens—Claiborne Parish School Bd., John S. Patton, Sec., having plans prepared by Edw. F. Neild, City Bk. Bldg., Shreveport, for \$70,000, 1-story, rein. conc., brick, stone trim high school.

La., Baton Rouge—State Bd. of Education receives bids Nov. 25 at Southwestern Institute, Lafayette, for 2-story and basement, rein. conc., brick, stone trim, fireproof high school for Louisiana State Institute for Blind; 40 classrooms; Wm. T. Nolan, Archt., Canal Bk. Bldg., New Orleans.

La., Lawtell—St. Landry Parish School Bd., W. B. Prescott, Supt., Opelousas, receives bids Nov. 6 for \$50,000, 2-story, brick and rein. conc. school; Herman J. Duncan, Archt., 120 Murray St., Alexandria; following contractors estimating: Tudor & Ratcliff; R. L. Poland; George Scallon, all Alexandria; R. J. Jones, Pineville; August Amy; Homer Ventre, Thurston McKinney, all Opelousas; E. E. Rabalais & Son, Bunkle; J. B. Carroll & Co., Leesville; D. E. Chapman, Baton Rouge; Reilly-Ruckstuhl, Inc., 423 Carondelet St., New Orleans; Knapp & East, Lake Charles; G. L. Whitaker & Son, Tyler-town, Miss. 10-10

Md., Baltimore—Bd. of Awards has low bid at \$178,900 from P. C. Street Engineering Co., 404 St. Paul St., for 3-story and basement, 38x204 ft., addition to school, Roland and Linwood Aves.; Palmer & Lamdin, Archts., 513 N. Charles St.; Van R. P. Saxe, Struc. Engr., Knickerbocker Bldg.; C. L. Reeder, Mech. Engr., 916 N. Charles St. 10-17

Md., Pittsboro—Wicomico County Bd. of Education, L. H. Gunbay, Pres., Salisbury, erect \$50,000, 1-story brick school; F. H. Dryden, Archt., City Hall, Salisbury.

Md., Upper Marlboro—Prince George's County Bd. of Education, Nicholas Orem, Supt., having plans prepared by Upman & Adams, Woodward Bldg., Washington, D. C., for \$30,000, 4-classroom Riverdale school addition, \$18,000 auditorium addition for Hyattsville elementary school, \$13,000, 2-room addition to Cheverly-Tuxedo school, \$50,000 Jr. High school at Decatur Heights, \$90,000 Mt. Rainer High School, \$50,000, 8-room elementary and auditorium school at Bradbury Heights, \$4000, 2-room farm Holly Grove and Mitchell schools. 5-23

Miss., Bay St. Louis—St. Stanislaus College, Brother Peter, Pres., has low bid at \$103,110 from Geary-Onkes Co., Queen and Crescent Bldg., New Orleans, for 2-story, rein. conc., brick and stone trim chapel, refectory and study hall; A. S. Montz, Archt., Poydras Ave., New Orleans. 10-10

Mo., Kansas City—City voted \$5,000,000 bonds for number of schools; Chas. A. Smith, Archt., Finance Bldg.; Jas. B. Jackson, Sec., Bd. of Education. 10-10

Mo., Springfield—Bd. of Education, A. R. Stewart, Sec., receives bids Nov. 19 for additions and alterations to Doling, Gulf, Pepperdine, Roberson, Rountree and York schools; separate bids for general work, heating and ventilation, plumbing and sewerage, and electric work; plans at office Mr. Stewart, also Wm. B. Ittner, Inc., Archt., Bd. of Education Bldg., St. Louis. 10-24

Okla., Altus—Altus School Dist. defeated \$200,000 bonds. 10-3

Okla., Roosevelt—Bd. of Education, C. L. Bream, Clk., erect \$40,000, 1-story, brick and conc. school; The Butler Co., Archt., Insurance Bldg., Oklahoma City.

Okla., Tuttle—School Bd. erect \$45,000 high school; The Butler Co., Archt., Insurance Bldg., Oklahoma City.

S. C., Rock Hill—Winthrop College, Dr. James P. Kinard, Pres., has permit for remodeling and additions to buildings; \$16,327.

S. C., Greenville—Bd. of School Trustees, Col. E. M. Blythe, Chmn., erect high school on Vardry St. 6-20

Tenn., Chattanooga—Bd. of Education soon select site for Brainerd Jr. High School.

Tenn., Knoxville—University of Tennessee, Dr. Harcourt A. Morgan, Pres., ready for bids about Jan. 1 for \$120,000 dormitory, \$300,000, 4-story and basement, 250x200-ft. Engineering Bldg. and \$200,000, 2-story and basement, 200x180-ft. Library; all brick, rein. conc., hollow tile, stone trim; Barber & McMurray, Archts., General Bldg. 7-4

Tenn., McKenzie—Bethel College, Rev. C. R. Matlock, plans \$50,000 dormitory.

Tex., Austin—Following contractors estimating on \$1,000,000 chemistry laboratory at University of Texas, bids Nov. 23 (extended date): J. F. Johnson, Third and Red River Sts., Austin; L. E. Myers Co., Allen Bldg.; Watson Co., 1927 S. Akard St.; Henger & Chambers Co., Dallas Natl. Bk. Bldg.; Bel-lows-MacLay Construction Co., Construction Industrial Bldg.; L. H. Lacy Co., Burt Bldg.; A. J. Rife Construction Co., 1913 N. Harwood St.; Central Contracting Co., Athletic Bldg., all Dallas; McKenzie Construction Co., Travis Bldg.; L. T. Wright & Co., Builders Exchange Bldg.; Walsh & Burney Construction Co., 928 N. Flores St., all San Antonio; Joseph E. Morgan, 319 Texas St., El Paso; James T. Taylor, First Natl. Bk. Bldg.; R. F. Ball Construction Co., 806½ Taylor St., both Fort Worth; J. E. Johnson Construction Co., 1000 Franklin Ave., Waco; separate bids on plumbing, heating and ventilating; electric wiring included in general contract; plans by Herbert M. Greene, LaRoche & Dahl, Construction Industries Bldg., Dallas, call for 4 stories and basement, 300x100 ft., brick, tile, rein. conc., struc. steel, tile roof, terra cotta and stone, cement, tile, conc., and linoleum floors, elevator, vault doors. 11-24

Tex., Austin—State Bd. of Control, R. B. Walthal, Chmn., receives bids about Nov. 5 for \$45,000, 2-story, brick and rein. conc. dining hall and teachers quarters at State School for Deaf and Dumb, colored; wood floors, built-up roof; Giesecke & Harris, Archts., Norwood Bldg. See Want Section—Building Material and Equipment. 10-17

Tex., Fort Worth—Bd. of Education, E. A. Corbett, Pres., erect 4 schools, 3 additions and repairs to all schools in East Fort Worth; erect schools in Riverside, Morning-side and part of city north of Katy Lake; also schools on Meadowbrook Drive, in Oak Lawn, another to accommodate pupils east of Wallace St.; additions to Polytechnic High School, R. Vickery and Tandy Schools; W. G. Clark, Archt., First Natl. Bank Bldg. 9-26

Tex., McAllen—McAllen Ind. School Dist. Trustees soon call for bids for 4-room frame school.

Tex., Mineola—Mineola Ind. School Dist., B. L. Chappell, Chmn., erect \$55,000 brick school.

Tex., San Antonio—Westmoorland College, Dr. E. R. Sanford, Pres., plans campaign to raise \$1,000,000; \$500,000 for new buildings, equipment; \$500,000 for endowment.

W. Va., St. Marys—State Bd. of Control, Jas. S. Lakin, Pres., Charleston, erect 2 buildings of cottage type and remodel farm house as administration building on 700-acre site 4 mi. from St. Marys, for State Training School for Feeble-minded. 10-3

### Stores

Ark., Little Rock—E. A. Battle, 2304 Arch St., has permit for \$15,000 business building, 2304 Arch St.

Ark., Little Rock—Matt Bush, Exchange Bank Bldg., has permit to remodel 2-story brick business building, 1000 W. Markham St.; \$15,000.

Ark., Pine Bluff—Barre's Bargain Store, A. Barre, Third and Main Sts., purchased 2-story brick building, 317 Main St., and remodel.

Ark., Weiner—W. P. Downing & Son soon start work on 1-story, 50x100-ft. brick and conc. store to replace burned structure recently burned; comp. roof, conc. and pine floors.

Ga., Thomson—H. C. McCorkle erect 1-story for Mack's Mercantile Co., on Railroad St.

La., Monroe—Abe Arent, 301 Mudson Lane, erect three 1-story, brick stores; \$10,000.

La., Shreveport—S. B. Simon, Simon Bldg., having plans prepared by Jones, Roessle, Olschner & Weiner, Ardis Bldg., for 2-story building, Texas St. near Common St.; 80 ft. frontage, first floor for 2 stores, second for 25 hotel rooms.

Mo., Kansas City—S. B. Tarbet, Archt., Natl. Fidelity Bldg., preparing plans for \$45,000, 2-story brick store and hotel.

Mo., St. Louis—Chas. A. Schulte, Archt., 2806 N. Grand Ave., preparing plans for \$35,000, 3-story brick store and apartment, S. Klungs Highway Blvd.

Okla., Oklahoma City—John Murphy, 3304 W. 20th St., and James H. Berry, 710 W. 16th St., soon ready for bids for \$150,000, 4-story and basement building, 427-29 W. Main St., to be leased to Spivey and McGill Furniture Co.; foundation for 14 stories, steel, conc. and brick; C. L. Monnot, Archt., Perrine Bldg.

Tenn., Memphis—Hubert Herff, 33 N. Third St., reported, erect \$250,000, 1-story, 150x200 ft., rein. conc. and steel, fireproof commercial building, Cleveland and Larkin Sts.; comp. roof conc. and wood floors.

Tenn., Nashville—Dr. A. S. Keim, Lambuth Bldg., erect \$15,000, 2-story brick addition to building, 147 Fifth Ave., N.

Tex., Bakersfield, Pecos County—V. C. Perner, Fort Stockton, erect 30x90 ft. store.

Tex., Dallas—Woolf Brothers, 1022 Walnut St., Kansas City, Mo., soon ready for bids for 6-story, brick, steel, stone, terra cotta trim department store, Main and Ervay Sts.; Alonzo H. Gentry, Archt., March Bldg., Kansas City. 7-25

Tex., Houston—M. Klinger, 2009 Washington St., has permit for \$14,000, 2-story, brick store, 2113-15 Washington St.

Tex., San Antonio—Joe Obriotti, 108 Arbor Place has permit for \$10,000, 44x140-ft. conc. and brick store; Gilbert Falbo Co., Contr.

### Warehouses

Mo., Kansas City—Standard Oil Co., J. W. Wilson, Mgr., Ninth St. and Hardesty Ave., erect warehouse, 18th and Iron Sts., North Kansas City.

Mo., Springfield—Springfield Tablet Manufacturing Co., Harry S. Jewell, 214 S. Jefferson St., plans \$40,000 brick warehouse and office.

N. C., Hickory—L. L. Frye erect 2-story and pasement, 46x100 ft., steel frame, brick warehouse, 12th St. and 11th Ave., to be occupied by Hickory Grocery Co.; comp. roof, conc. and wood floors; Q. E. Herman, Archt.; bids in. See Want Section—Building Material and Equipment. 10-24

Okla., Tulsa—L. A. Thorpe erect 1-story brick building, 309-13 E. Brady St.; Electric Appliance Co., 213 E. Archer St., Lessee; Cross & Duggan, Archts., 114½ E. Second St.

Tex., Houston—R. C. Parks, Bankers Mortgage Bldg., erect \$30,000, 1-story, hollow tile and brick warehouse and distributing plant, Alameda Road and Truxillo St., to be leased to Walgreen Texas Co., who will expend \$12,000 for fixtures, including cold storage system.

## BUILDING CONTRACTS AWARDED

### Association and Fraternal

Mo., Kirksville—Adair Lodge No. 266, A. F. & A. M., Geo. Laughlin, Chmn., Bldg. Comm., erect \$100,000 temple; brick, native stone and rein. conc., 3 stories and basement, 78x56 ft., struc. steel, terra cotta, wood and terrazzo floors, steam heat; Bonsack & Pearce, Archts., 411 Olive St., St. Louis; L. F. Poehlman, Contr., 302 S. Main St., Kirksville.

N. C., Oxford—Oxford Orphanage (Masonic) Building Comsn., Alex B. Andrews, Chmn., let contract at \$57,221 to Thos. A. Mitchell, First Natl. Bank Bldg., Kingston, for baby cottage and at \$71,028 for girls' in-

dustrial bldg.; Atwood & Nash, Inc., Archts.-Engrs., Chapel Hill. 10-17

Tex., El Paso—Carpenters Union No. 425 erect \$23,000 lodge bldg., Yandall and Birch Sts.; brick; stores on first floor; Geo. Wieland, Contr., 1109 E. Yandall Blvd.

Tex., Vernon—Vernon Lodge No. 333, I. O. O. F., let contract for \$16,000 bldg. to J. A. Carney; store on first floor.

### Bank and Office

Fla., Miami Beach—Chas. S. Ewing Co., 117 N. E. 14th St., has contract to alter and erect addition to bldg., 23rd and Liberty

Sts., for Dr. Bornhill; \$10,000; C. H. Nellenbogen, Archt.

La., New Orleans—W. Horace Williams, Inc., Southern Bldg., has pile driving contract for \$250,000 Medical Arts Bldg. for W. A. Walsingham and Manuel Molero, 2514 Esplanade St.; rein. steel, Harold Raymond, Hibernia Bldg.; mail chutes, Cutler Mail Chute Co., Rochester, N. Y., through J. T. Mann & Co., Inc., 319 Dryades St.; east stone, Edw. D. Boyle & Co., Inc., 3301 India St.; glazing, Pittsburgh Plate Glass Co., 314 Girod St.; marble, Vermont Marble Co., Proctor, Vt., through C. F. Favrot Supply Co., 2530 Perdido St.; steel sash J. T. Mann & Co., Inc., 319 Dryades St.; plumbing, heating, refrigerating and sprinkler systems, Gore & Daubert, Inc., 835 Baronne St.; roofing, Taylor-Seidenbach, Inc., 1401 Tchoupitoulas St.; sheet metal work, Standard Sheet Metal Works, 635 St. Peters St.; wiring, Eugene Freeman, Inc., 713 St. Charles Ave.; plastering, Moroney & Middleton, Canal Bk. Bldg.; masonry, T. A. Pittman, 2305 Almonaster St.; mastic floors, Southern Builders Material Co., Maison Blanche Bldg.; millwork, National Sash & Door Co., Inc., 600 N. Dupre St.; painting, Frank J. Matthew Co., Inc., 918 Union St., all New Orleans. 10-17

Md., Baltimore—Frank B. Cahn & Co., Equitable Bldg., let contract to Consolidated Engineering Co., Inc., 20 E. Franklin St., to remodel present quarters and adjoining space; Smith & May, Archts., Calvert Bldg. 8-29

Miss., McComb—Dr. E. R. Gordon started work on 1-story, 20x60-ft. office bldg., N. Broadway.

Miss., Norton—Bank of Norton let contract at \$10,500 to Currie & Corley, Raleigh, for brick and stone trim bank bldg.; 1 story; N. W. Overstreet, Archt., Miss. Fire Bldg., Jackson. 10-24

Mo., Gainesville—Bank of Gainesville erect bank bldg.; Gus Messick, Contr., Mountain Home, Ark.

### Churches

Tenn., Knoxville — Church St. M. E. Church, South, H. L. Dulin, Chmn., Bldg. Comm., let contract for \$500,000 bldg. to H. A. Gervin Construction Co., 215 Broadway, Knoxville; rein. conc., struct. steel, stone, brick and tile, 2 and 3 stories and basement, comp. and slate roof; John Russell Pope, Archt., 542 Fifth Ave., New York; Barber & McMurray, Asso. Archts., 425 W. Church St., Knoxville. 10-10

Tex., Fort Worth—First M. E. Church, J. B. Baker, Chmn., Bldg. Comm., let contract at \$516,000 to Harry B. Friedman, First Natl. Bk. Bldg., Fort Worth, for Gothic type bldg., W. Taylor and Seventh Sts.; plumbing, heating and ventilating, J. C. Korith & Co., Sherman, Tex., at \$39,800; wiring, Shotts Electric Co., 211 W. Eighth St., Fort Worth, \$12,750; chimneys, J. C. Dugan, Chicago, Ill.; contracts on furniture, decorating, etc., later; structure \$1,000,000, rein. conc., auditorium 1 story, Sunday school 3 stories, 40,000 sq. ft. ground area, wood, tile, marble, terrazzo and cement floors, conc. foundation, slate and tar and gravel roof; W. G. Clarkson & Co., Archts., First Natl. Bk. Bldg., Fort Worth. 9-12

Tex., Garland—Baptist Church, L. D. Bussey, Chmn. Bldg. Comm., erect \$35,000 bldg.; Spanish type, seat 500; Clarence C. Bulger, Archt.; Dee Humphrey Construction Co., Contr., Construction Industries Bldg., 6850 Gaston St., Dallas.

### City and County

Ga., Nahanta—Brantley County Bd. of Commrs. let contract to Ledsinger & Turner, New Castle St., Brunswick, for \$31,500 courthouse; brick, 2 stories, artificial stone and galv. iron cornice, conc. foundation, 2 stories, 48x90 ft., asbestos slate roof; address proposals on furnishings, equipment, etc., \$5000, to J. E. Strickland, Brantley County, Clk.; Lloyd Chaffin, Archt., Waycross; pouring foundation. See Want Section—Building Material and Equipment. 10-24

Tex., El Paso—City has permit to remodel city hall annex; \$11,000; Wm. G. Wuehrmann, Archt., Two Republics Bldg.

### Dwellings

Ala., Birmingham—J. Edgar Bowron, First Natl. Bk. Bldg., let contract to H. J. Tillis, 406 N. 23rd St., for \$12,000 residence; brick veneer, 2 stories and basement, comp. roof, furnace; Turner & Slater, Archts., Martin Bldg. 10-24

Ala., Birmingham — F. C. George, care Chas. M. McCauley, Archt., Jackson Bldg.,

erect \$14,000 brick veneer residence, Mt. Brooke Estates; 2 stories, 42x28 ft., tile baths, asphalt roof, steam heat; owner builds.

Ala., Birmingham—John H. Matthews, 1933 S. 29th Ave., erect brick, stucco and half-timber residence, Hollywood; 2 stories; Turner & Slater, Archts., Martin Bldg.; owner builds.

Ark., Little Rock—Henry G. Fain, 3115 W. Markham St., erect \$10,000 residence, 2931 Lee Ave.; Bracy Building Co., Contr., Home Ins. Bldg.

Ark., Little Rock—Sam Strauss erect \$20,000 stone veneer residence, 300 Midland Ave.; I. B. Davis, Contr., 2412 Schiller St.

Ark., Otter—Jake Hanson started work on brick veneer and frame residence; 1 story, 6 rooms, comp. shingle roof; owner builds.

Ark., Pine Bluff—W. E. Steed, 31st and Fir Sts., started work on residence; M. M. Redmond, Contr., 517 W. 23rd St.

D. C., Washington — Alfred T. Newbold, 5626 Connecticut Ave., N. W., erect 2 dwellings, 4601 Linnear Ave., N. W., and 1400 Montague St., N. W., after plans by C. N. Norton, Archt.; stone, stucco, brick, 2½ stories; \$36,000. 10-24

D. C., Washington—Wardman Corp., 1437 K St., N. W., erect 12 brick and tile dwellings, 1352-74 Sheridan St., N. W., after plans by M. Mesrobian, Archt., 5115 Forty-first St., N. W.; brick and tile, 1 story; \$300,000; owner builds. 10-10

D. C., Washington—Preston Gibson, care rage; brick, 2½ stories; H. W. Cutler, Archt., North Washington Realty Co., Contr., Silver Spring, Md., erect \$25,000 residence and garage, 1800 E St., Washington.

D. C., Washington—V. I. Richard, 1411 Forty-fourth St., N. W., erect 2-story residence, 4811 W St., N. W.; 63x30 ft.; Jos. Baumer, Archt., 1212 Otis St., N. E.; Spink Construction Corp., Contr., Investment Bldg.

Fla., Lake Wales—Dr. A. R. L. Dohme, care Sharp & Dohme, Baltimore, Md., started work on \$40,000 residence, Mountain Lake; Parsons & Wait, Archts., 1 Beacon St., Boston, Mass.; Mr. Miller, Contr., Lake Wales.

Fla., Madison—P. K. Lanier started work on 6-room bungalow, S. Harry St.; Charlie Bunting, Jr., Contr.

Fla., Passagrille—Lee Czelkelski started work on \$11,000 residence; stucco and frame, 2 stories; Sedgwick Moss, Archt., J. B. Smith Bldg., St. Petersburg; owner builds.

Ga., Atlanta—J. F. Skinner, 528 Cameron St., erect frame residence, 714 Hansell St., S. E.; 1 story, 5 rooms and bath, hardwood floors, comp. shingle roof; owner builds.

Ga., Athens — Athens Manufacturing Co., erect 10 operatives' dwellings; frame, comp. and wood shingle, brick and conc. work; owner builds.

Ga., Atlanta—Wm. M. Hicks, care Sterchi Furniture & Carpet Co., 146 Mitchell St., S. W., erect \$18,000 residence; brick veneer, conc. foundation, 2 stories and basement, hardwood floors, comp. roof, steam heat; Norris Construction Co., Contr., 161 Spring St., N. W.

Ga., Atlanta—Mrs. T. C. Trippe, 548 Church St., Decatur, let contract to Jas. Shepherd, Georgia Savings Bk. Bldg., for \$20,000 residence; stucco, native stone and brick veneer, 2 stories and basement, 48x39 ft., tile, hardwood and cement floors, comp. shingle roof; Jesse Wilhoit, Archt.; J. B. Worthy, Asso. Archt., both Mortgage Guar. Bldg. 10-17

Ga., Atlanta — Mrs. Jas. J. Goodrum, 33 Eleventh St., N. E., let contract for \$60,000 residence to Collins, Holbrook & Collins, Atlanta Tr. Bldg.; rein. conc., brick, stucco and hollow tile, Indiana limestone trim, 2 stories and basement, 115x41 ft., struct. steel, Buckingham slate or Ludowick Celadon tile roof; Hentz, Adler & Shute, Archts., Candler Bldg. 10-3

Ga., Atlanta—Minter-Melton Corp., Southeastern Tr. Bldg., erect \$10,000 brick veneer dwelling, N. Burlington Rd.; brick veneer, wood joist, hardwood floors, tile baths, comp. shingle roof; owner builds.

Ga., Augusta—Guy H. Merry, care McKenzie Brick Co., New Savannah Rd., erect brick veneer residence; 1½ stories, 57x38 ft., hardwood floors, comp. shingle roof, tile baths, hot air heat; Sibert & Robison, Contrs., 126 Eighth St.

La., New Orleans — John F. Clark, Jr., erect brick veneer residence, Metry Club Gardens; 2 stories, oak floors, slate and comp. roof; Carl E. Woodward Co., Inc., Contr., Louisiana Bldg.; receiving sub-bids.

Md., Baltimore—John Welsh, 11 E. Fayette St., erect 17 brick dwellings, 3300 block Clifftmont Ave.; 2 stories; \$50,000; owner builds.

Md., Baltimore — Jas. Keely, 3529 Edmondson Ave., erect 22 brick dwellings and garages, 822-44 Woodington Ave.; 2½ stories, 20x35 ft. and 20x36 ft., steam heat; \$72,000; Fredk. E. Beall, Archt., 306 St. Paul St.; owner builds. 10-24

Md., Baltimore — Elmer R. Haile erect stucco residence, Wendover Rd. near Underwood Rd., Guilford; H. A. Stilwell, Archt.; Peyton B. Strobel Construction Co., Contr., both 206 E. Lexington St.

Md., Baltimore — Henry I. Adler, Bldr., Munsey Bldg., erect 15 brick dwellings, 4000 and 4100 blocks Garrison Blvd.; 2 stories, 20x32 ft., slate roofs, hot water heat; E. L. Gonyon, Archt., 4005 Fairfax Rd.; owner builds.

Md., Baltimore—Frank Novak Realty Co., Gunther Bldg., erect 46 dwellings, 3400 block Kenyon Ave.; brick, 2 stories, hot water heat; G. F. Smithson, Archt., 1212 N. Central Ave.; owner builds.

Md., Baltimore—Mayfield Realty Co. erect 3 stone and conc. block dwellings and garages, 3603-07 Harford Rd.; 2 stories, 34.1x40.10 ft. and 29.2x51.10 ft., slate roofs, hot water heat; Fredk. Thomas, Archt., 726 E. 33rd St.; owner builds.

Md., Baltimore—Phillip S. Morgan, Bldr., 514 St. Paul Place, erect \$15,000 dwelling, 5223 Springdale Way; 2½ stories.

Miss., Meridian—A. P. Pool, A & 24th Ave., erect conc. block residence, B St. and 16th Ave.; 1 story, comp. roof; day labor.

Mo., Cape Girardeau—W. P. Whitledge, 723 N. Henderson St., let contract to Gerhardt & Son, Broadway and Sprigg St., for \$11,000 English type residence; brick and conc., 2 stories, 36x40 ft., oak floors, asphalt slate roof, hot water heat. 9-26

Mo., Kirkwood, St. Louis—E. A. Bryant, 3205 Edgar Ave., erect \$10,000 brick residence, Clay and Sarah Aves.; 1½ stories and basement, 30x36 ft., tile bath, hardwood floors, hot air heat, slate coated shingle roof; work by sub-contract.

Mo., Kirkwood, St. Louis—L. E. Pierce, 4 Pitman Place, erect \$10,000 brick residence, Central Place; 1½ stories and basement, 29x32 ft., hardwood floors, tile bath, slate coated shingle roof, hot water heat; work by sub-contract.

Mo., Kirkwood, St. Louis—Robt. Roloff, 119 W. Woodbine Ave., erect \$10,000 brick residence, Central Place; 1½ stories and basement, 26x32 ft., hardwood floors, tile bath, slate coated shingle roof, hot water heat; L. E. Pierce, Contr., 4 Pitman Place.

Mo., Mattese, St. Louis—Dr. Clarence Martin, Missouri Theatre Bldg., remodel and enlarge residence; 2 additional rooms, comp. roof, hot air heat, porch; Geo. Harkness, Archt., 7214 Lyndover St.; work by sub-contract.

Mo., Springfield—R. A. Ollis, 408 E. Commercial St., erect \$20,000 residence, 1325 Benton Ave.; Colonial type, brick and stone, 2 stories and basement, oak floors, tile baths, slate roof, hot water heat; Heckenlively & Mark, Archts., Landers Bldg.; O. L. Allen, Contr., 1840 N. Douglas St.

Mo., St. Louis—Carter Realty Co., Inc., 7301 Natural Bridge Rd., erect brick dwelling, Pasadena Hills; 2 stories and basement, 30x70 ft., hardwood floors, tile bath, slate roof, vapor heat; Johnson & Maack, Archts., Chemical Bldg.; Wm. MacDonald Construction Co., Contr., Synd. Tr. Bldg.; plans nearing completion.

Mo., St. Louis—John Wasam, 1016 McCausland Ave., erect \$10,000 residence, 1219 Arch Terrace; 1 story and basement, 28x52 ft., tile bath, hardwood floors, tile roof, hot water heat; Wm. Boenecke, Contr., 7433 Lyndover St.

Mo., St. Louis—Dr. Otto S. Krebs, 4903 Delmar Blvd., erect 11-room residence, 11 Dromara Rd.; 3 baths, 3-car garage and servants' quarters; Nolte & Nauman, Archts., 3832 W. Pine St.; George F. Bergfeld Co., Contr., 3832 W. Pine St.

Mo., St. Louis—J. Chapman Building Co., 5856 Delmar Blvd., erect \$15,000 dwelling; brick, 2 stories and basement, 27x31 ft., tile and hardwood floors, slate roof, cut stone trim, hot water heat; O. J. Popp, Archt., Arcade Bldg.; work by sub-contract.

Mo., St. Louis—J. M. Hans, 3651 Wilmington Ave., erect \$10,000 residence; brick, 2 stories and basement, 26x33 ft., hardwood floors, tile bath, asphalt shingle roof, warm air heat; A. R. Bosso, Contr., 5624 Minnesota Ave.

Mo., St. Louis—J. Chas. Mueller & Son, 3528 Hebert St., erect \$10,000 dwelling, Normandy Grove; brick, 1½ stories and basement, 38x31 ft., hardwood floors, tile bath, comp. shingle roof, hot air or hot water heat; Nolte & Nauman, Archts., 3832 W. Pine Blvd.; work by sub-contract.



Mo., University City, St. Louis—Howard Godwin, 6635 Delmar Ave., erect \$10,000 dwelling, 7223 Kingsbury Blvd.; 2 stories, about 28x50 ft., rubble foundation, slate roof, hot water heat; plans and construction by owner.

Mo., University City, St. Louis—V. Copledge, 7208 Dorset St., erect \$10,000 residence, 7219 Colgate Ave.; brick, 1½ stories and basement, 45x38 ft., hardwood floors, tile bath and roof, hot water heat; Jos. Jandl, Contr., 7214 Dorset.

Mo., University City, St. Louis—M. Costa, Seventh and Carr Sts., erect \$14,000 residence, 7301 Teasdale Ave.; brick, 2 stories, 33x53 ft., rubble foundation, slate roof, hot water heat; R. A. Conzelman, Archt., Calumet Bldg.; Ralle & Brugnone, Contrs., 4659 Page St.

N. C., Greensboro—Mrs. Marybell T. Petty, Bethlehem, Pa., erect 3 brick veneer dwellings; 2 stories and basement, 47x32 ft., 6 rooms; \$18,000; M. W. Lewis, Contr., Glenwood.

Okla., Enid—Dr. W. E. Lamberton let contract to V. M. Peterson for \$40,000 residence; brick and stone, conc. foundation, 2 stories and basement, 45x91 ft., oak and linoleum floors, struct. iron, metal lath, steel sash, shingle or slate roof, vapor heat; J. D. Forsythe, Archt., Exchange Natl. Bank Bldg., Tulsa. 9-26

Okla., Tulsa—Dr. F. B. Larkins, Philtower Bldg., let contract to A. C. Davis, 2612 E. Fourth Place, for 2-story brick veneer residence, Sunset Park Addition; John T. Blair, Archt., Exchange Natl. Bk. Bldg. 10-24

Tenn., Memphis—Chas. B. Brooks, Faxon St., erect brick veneer residence; 2 stories, hardwood floors, 2 tile baths, steam heat; J. Frazer Smith, Archt., Goodwyn Inst. Bldg.; J. A. Haley, Contr., Exchange Bldg.

Tenn., Memphis—J. A. Haley, Exchange Bldg., erect \$10,000 brick veneer dwelling, 924 N. McLean St.; 2 stories, 30x57 ft., hardwood floors, tile bath, comp. roof, hot water heat; J. Frazer Smith, Archt., Goodwyn Inst. Bldg.; owner builds. 10-24

Tenn., Nashville—Maxie Jarman let contract to Shannon Love, 805 Mile End Ave., for brick veneer, stone and conc. residence, Woodlawn Drive; 2 stories and basement, 29 x52 ft.; Jos. W. Hart, Archt., Jackson Bldg. 10-24

Tex., Galveston—W. L. Moody, III, 15 Cedar Lawn St., S., erect hollow tile and brick addition to residence; 1 story; Smallwood & Hosmer, Archts., Esperson Bldg.; Northern Construction Co., Contr., Union Natl. Bank Bldg., both Houston.

Tex., Highlands—Tyrrell & Garth Investment Co. started work on farm buildings on 50-acre farms; about 20 farmhouses, barns, etc.; dwellings \$1200, frame, 1 story, 28x30 ft., wood floors, conc. foundations, comp. and shingle roofs; separate contract for each house; all materials from Elena Lumber Co. 10-24

Tex., Houston—Wendell L. Loomis, Chicago, Ill., erect Colonial residence, Ruth and Chartres Sts.; brick, 2 stories, 12 rooms; Weber & White, Archts., Chicago; Sherman Nelson, Inc., Contr., San Jacinto Trust Bldg.

Tex., Houston—Walter F. Daly, Cotton Exch. Bldg., erect 2-story residence, Del Monte Drive near Kirby Drive; Chas. W. Oliver, Archt., River Oaks Bldg.; Russell Brown Co., Contr., 3104 Main St.

Tex., Livingston—State Bd. of Control, R. B. Walthall, Chmn., Austin, let contract to J. F. Smith, P. O. Box 464 Jacksonville at \$14,582, for 25 dwellings, Alabama-Coushatta Indian Reservation, Polk County; frame, conc. block footings, 1 story, about 22x28 ft., corrugated galv. iron roof, wood floors, brick fires; plans by S. R. McCoy, State Bldg. Inspector; 25 additional dwellings in 1930. 10-10

Tex., San Antonio—A. J. Malenson, care McKenzie Construction Co., Travis Bldg., started work on residence, Waremore Estates.

Tex., San Antonio—Kuntz Flint Hagy erect \$10,000 residence, 264 Genasco St.; brick veneer, 2 stories, 9 rooms, 46x34 ft.; John Hagy, Contr., both 823 Lakeview St.

### Government and State

Tex., Greenville—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., let contract at \$68,486 to Algernon Blair, First Natl. Bk. Bldg., Montgomery, Ala., to extend and remodel post office. 10-10

### Hospitals, Sanitariums, Etc.

Ala., Birmingham—Norwood Hospital, 1611 N. 25th St., erect third floor addition; \$100,000, Turner & Slater, Archts., Martin Bldg.; T. C. Brasfield, Contr., 5108 Gary Ave.; elect. work, Middlebrooks Electric Co., 412 N. 19th St.; plumbing and heating, Scholze & Hamill, 3113 N. 27th St.

Fla., Fort Myers—Marion Mortgage Co., 435 N. E. First Ave., Miami, expend \$15,000 to remodel and redecorate Franklin Arms Hotel; W. A. Markley, Contr.

Fla., Miami—Miami Solarium, Inc., 120 S. W. 30th Ave., A. W. Ellis, Pres., erect \$15,000 frame and stucco addition to medical bldg.; 2 stories, 17x94 ft., wood sash and floors, metal lath, tile and comp. roof; owner builds; after Jan. 1 erect addition to sanitarium, cottages, swimming pool, etc.; \$135,000; Geo. L. Pfeiffer, Archt., Biscayne Bk. Bldg. 8-15

Miss., Hattiesburg—South Mississippi Infirmary, Dr. W. W. Crawford, started work on 2-story annex to clinical dept.; brick and stucco; 45 examination rooms; W. L. Phillips, Contr., 421 Hutchinson Ave.

Mo., St. Louis—St. Lukes Hospital let contract to Gamble Construction Co., 620 Chestnut St., for power plant, 5535 Delmar Blvd.; fireproof, brick and rein. conc., 2 and 4 stories, 61x103 ft.; LaBeaume & Klein, Archts., American Tr. Bldg.; Brussel & Viterbo, Engrs., Arcade Bldg. 9-26

S. C., Greenville—L. L. Barr, 19 W. North St., has plumbing and heating contract for \$150,000 Greenville County Tuberculosis Hospital; wiring, Huntington & Guerry, River St.; marble and tile work, Campbell Tile & Mantel Co., 118 W. North St., all Greenville; plastering, O. A. Anders, Hendersonville, N. C.; Beacham & LeGrand, Archts., Peoples Natl. Bank Bldg., Greenville; Robt. S. Newcomb, Plbg. Engr., Walton Bldg., Atlanta, Ga.; Geo. R. Morgan, Elect. Engr., Walker Bldg.; Potter & Shackelford, Inc., Contrs., Allen Bldg., both Greenville. 9-26

### Hotels and Apartments

D. C., Washington—R. P. Whitty Co., Denrike Bldg., has contract to erect \$500,000, 8-story, brick, 157-room apartment hotel, 25 E St., N. W.; Pierson & Wilson, Archts., Hill Bldg., 17th and Eye Sts., N. W.

Fla., Miami Beach—Seaview Co., Box 67, let contract to Arthur H. Higgins, Fifth St. and Meridian Ave., for \$20,000, 2-story, 36x62-ft., rein. conc. and conc. block, stucco, 4-apartment, 42nd St. and Ocean Drive; tile and wood floors, comp. and tile roof; A. Fraser Rose, Archt., Collins Ave.

Fla., Boca Raton—Spanish Land Co. let contract to Dudley-Murphy Construction Co., Wagg-Wilson Bldg., West Palm Beach, for bath houses and cabanas; Robt. A. Taylor, Archt., 416 Esplanade Way, Miami Beach. 10-17

La., Shreveport—Mrs. Mabel Faust Davis has permit for \$10,000, brick veneer, 4-apartment, 759 Ratcliff St., Glenwood Park subdivision; Leon Hendrick, Contr., 810 Ratcliff St.

Mo., Kansas City—McCanles Building Co., Victor Bldg., plans 5-apartment group on site to include 230 ft. on Armour Blvd., 270 ft. on 35th St. and 290 ft. on Warwick Blvd.; total of about 500 apartments; passages to link buildings; 200-car garage underneath central garden; will begin development with two 8-story buildings at Armour side of tract; next step to be two 10-story structures; final building to be 12 stories with central tower rising 15 stories; Alonzo H. Gentry, Archt., March Bldg.

Mo., St. Louis—Lund has permit for three 2-story, 24x42-ft. brick tenements, 4917-25 Penrose St.; \$19,500; asphalt shingle roofs, hot air heat; C. E. Lund, Bldr., both 4500 San Francisco St.

Mo., St. Louis—Maryland Building & Investment Co., H. A. Barnett, Pres., 808 Chestnut St., ready for sub-contracts for \$75,000, 3-story, brick, 18-apartment, Green Lea and E. Warne Sts.; O. J. Popp, Archt., Arcade Bldg.

Mo., St. Louis—I. R. Brockett erect \$10,000, 2-story, 32x50 ft., brick tenement, 3156-58 Watson Road; comp. shingle roof, hot air heat; J. B. Brockett, Bldr., both 712 Sherwood Drive.

Mo., University City, St. Louis—Earl Smith, 7053 Forsythe St., erect two 2-story, brick flats, 7273-75 Lindell Blvd.; \$20,000, conc. tile roofs, steam heat; E. A. Ramsey, Bldr., 6236 Lexington St.

Mo., University City, St. Louis—N. H. Daniels, 2809 Ivanhoe Ave., excavating for \$12,000, 2-story and basement, 27x45 ft., brick, apartment, 7031 Tulane Ave.; tile roof,

hardwood floors, steam heat; owner, Archt.-Bldr.

Okla., McAlester—Following additional sub-contracts awarded on \$400,000, 10-story and basement, 150-room hotel under construction for Aldridge Hotel Co., Wewoka; Electrical, Broome Electric Co., Sapulpa; brick, State Penitentiary, McAlester; heating and plumbing, Oller Heating & Plumbing Co., First Natl. Bk. Bldg., Oklahoma City; Harmon & Mattison Construction Co., Gen. Contr., Insurance Bldg., Oklahoma City; Guy C. Reid, Archt., Elks Bldg., Oklahoma City. 9-26

Tex., Big Spring—W. R. Settles let contract to E. V. McCright Co., Construction Industries Bldg., Dallas, for \$400,000, 15-story, brick, tile, steel and rein. conc., 160-room hotel; excavation started by Gifford-Hill & Co., North Texas Bldg., Dallas; David S. Castle, Archt., Alexander Bldg., Abilene. 9-12

Tex., Houston—Pete Mousoulotes, 417 Lamar St., has permit to erect \$200,000 hotel, Brazos and Lamar Sts.; B. P. Panas, Contr., Esperson Bldg.

Tex., Marshall—Following sub-contracts awarded on \$240,000, 8-story Marshall Hotel for S. B. Perkins, Perkins Dry Goods Co.; Bellows-Macley Construction Co., Gen. Contr., Construction Industries Bldg., Dallas; Plumbing and heating, The Farwell Co., 1903 N. Haskell St.; electric, Electric Construction Corp., 209 S. Pearl St.; cut stone, Herget Cut Stone Co., 5241 Maple St.; misc. iron and struc. steel, Southern Ornamental Iron Works; hollow tile, Reliance Clay Products Co., both Republic Bank Bldg.; marble, Vermont Marble Co., 1513 Wall St.; metal windows, R. J. DeWees Co., Slaughter Bldg.; metal doors, S. A. Ellsberry Co., 2308 Griffin St.; finish hardware, Huey & Philip Hardware Co., 1029 Elm St.; all Dallas; cast stone, Pyramid Stone Co., 1107 National St., Houston; rein. steel, Connors Steel Co., Empire Bldg., Birmingham, Ala.; elevator doors, Collins Manufacturing Co.; tile floors, Southland Tile & Mantel Co., 1728 N. Enderly Rd.; lath and plaster, Fort Worth Artificial Stone & Staff Co., 1509 N. Lake St.; millwork, Ingram & Co., W. J. Waggoner Bldg., all Fort Worth; face brick, Marshall Brick Co.; conc. material, Marshall Supply Co.; lumber, Taylor Bros. Lumber Co., all Marshall; mail chute, Cutler Mail Chute Co., Rochester, N. Y.; Wyatt C. Hedrick, Inc., Archt., First Natl. Bk. Bldg., Fort Worth. 7-18

### Miscellaneous

Fla., Miami Beach—Seaview Co., Box 67, let contract to Arthur H. Higgins, Fifth St. and Meridian Ave., for \$10,000, 1-story, 40x80-ft., rein. conc. and conc. block restaurant, Washington Ave. between Fifth and Ninth Sts.; wood floors, cast stone trim, comp. roof; A. Fraser Rose, Archt., Collins Ave.

Fla., Miami Beach—South Beach Amusement Co., Biscayne Plaza Theatre Bldg., has permit for \$60,000 dance and dining pavilion, Biscayne Ave.; E. R. Lindabury, Inc., Contr., 135 Lincoln Rd.; W. E. Brown, Archt., Coolidge Bldg.

Fla., Miami Beach—Mathews Properties, Inc., James F. Mathews, Pres., 720 Collins Ave., erect \$25,000, conc. block, Italian type clubhouse; J. C. Gaffney, Contr., 708 Collins Ave.; E. L. Robertson, Archt., Calumet Bldg.

Mo., St. Louis—Delmonte Investment Co., F. L. Cornwell, Pres., 112 N. Fourth St., let contract to International Co., 3115 S. Grand Blvd., for \$100,000, 1-story brick night club on Delmar Blvd.

S. C., Charleston—Charleston Municipal Golf Course Comsn., J. W. Whitsett, Chmn., let contract to Homebuilders' Corp. for 2-story, 30x50 ft., clubhouse; first floor brick, second redwood shingles, steam heat; D. C. Barbot, Archt., 26 Broad St.

### Schools

Ala., Montgomery—State Bd. of Education, Dr. R. E. Tidwell, Supt., let contract to Grahm Construction Co., 133½ Magnolia Ave., Daytona Beach, Fla., for two 3-story, brick buildings at Alabama State Industrial School; \$350,000; electrical work, \$18,000, Malone Electric Co., 314 Goodall Ave., Daytona Beach; Warren, Knight & Davis, Archts., Protective Life Bldg., Birmingham.

Ark., Harrisburg—School Dist. No. 13, Poinsett County, T. S. Smith, Supt., let contract to Nix Brothers for 1-story, brick veneer school.

D. C., Washington—Franciscan House of Studies, Holy Name Providence, 18th St. and Michigan Ave., N. W., let contract to Turner Construction Co., 1600 Walnut St., Philadelphia, for \$850,000, 2 and 3-story, brick and tile college building; Chester W.

Oakley, Archt., 117 W. Tupper St., Buffalo, N. Y.; George A. Weschler, Mech. Engr., 16 Jackson Place, N. W., Washington. 8-22

La., Lake Charles—School Bd., Floyd Hamilton, Pres., let contract at \$36,260 to W. J. Quick, 424 Bilbo St., for 1-story and balcony, 83x102.8 ft., brick and steel gymnasium; conc. and wood floors, built-up roof; I. C. Carter, Archt., Kaufman Bldg. 10-10

La., New Orleans—Orleans Parish School Bd., A. J. Tete, Sec., let contract at \$450,000 to Caldwell Bros., 816 Howard Ave., for 3-story, rein. conc., 40-classroom annex to Martin Behrman Public School, Opelousas Ave., Belleville, Slidell and Valette Sts., Algiers; built-up comp. and tile roof, brick and stone trim, accommodate 1400 pupils; E. A. Christy, Suv. Archt. for School Bd. 10-17

Md., Baltimore—Md. of Awards let contract at \$232,833 to Lacchi Construction Co., 17 Guilford Ave., for Glenmount School; 2 stories, 248x63 ft., 16 classrooms, stone, slate roof, wood floors in classrooms, cement floors in corridors; Flournoy & Flournoy, Archts., 206 St. Paul St. 10-17

Md., College Park—University of Maryland, Samuel Shoemaker, Chmn., Bldg. Comm., erect \$200,000, 1-story, brick and steel library; Smith & May, Archts., Calvert Bldg., Baltimore; Price Construction Co., Contr., Maryland Trust Bldg., Baltimore, ready for sub-contracts. 4-11

Miss., Corinth—Bd. of Trustees, Corinth Public Schools, R. B. Warriner, Sec., let contract at \$13,610 to J. D. Smith, Memphis, Tenn., for 1-story, 110x75 ft., rein. conc. and brick gymnasium; built-up comp. roof, conc. floors, R. A. Heavner, Archt., Jackson, Tenn. 10-17

Miss., Little Rock—Newton County Bd. of Education, Decatur, let contract at \$24,500 to R. E. Keith, Decatur, for 1-story school. 10-17

Mo., Columbia—Pi Beta Phi Sorority, Mrs. M. L. Lipscomb, Jr., Chmn., Bldg. Comm., let contract to J. E. Hathman for chapter house, 511 Rollins St.; \$40,000, 3 stories, brick; Frederick H. Michaelis, Archt., Tower Bldg., Kansas City. 8-15

Mo., St. Louis—Bd. of Public Service let contract at \$25,319 to Dunham Construction Co., Chemical Bldg., for 1-story, 31x117 ft., conc., brick, stone laundry building at St. Louis Training School for Feeble Minded, Bellefontaine Road, St. Louis County. 9-12

N. C., Kinston—Caswell Training School, L. P. Tapp, Chmn., Executive Comm., let contract at \$22,480 to Jones Bros. Co., Planters Bank Bldg., for Junior Dormitory; Benton & Benton, Archts., Fidelity Bldg., both Wilson. 10-10

N. C., Rocky Mount—Eastern Carolina Training School for Boys, S. E. Leonard, Supt., let contract at \$58,957 to J. N. Bryan & Son, Rogers Bldg., Raleigh, for 3 dormitories; 2 and 3 stories, brick and tile, comp. roof, steam heat; W. M. Wiggins & Co., 129 Barnes St., Wilson, have contract at \$17,263 for heating and plumbing; G. R. Berryman, Archt., Odd Fellows Bldg., Raleigh. 10-17

Tenn., Tullahoma—Capt. R. H. Lyle, Comm. of State Dept. of Institutions, Meridian Bldg., Nashville, let contract at \$30,867 to A. M. Griffin for 3-story brick classroom addition to Girls' Vocational School; Henry C. Hibbs, Archt., American Trust Bldg., Nashville. 10-17

Tex., Denton—Bd. of Education, W. T. Doggett, Supt., let contract to Vestal & Nangle for physical education building on Mounts Ave.; M. C. Kleuser, Archt., Construction Industries Bldg.; Eugene E. Davis, Asso. Archt., Central Bk. Bldg., both Dallas. 10-10

Va., Maidens—Virginia Industrial School for Boys, C. E. McClintock, Supt., completed foundation for \$25,000, 1-story and basement, 42x38 ft., brick dormitory; slate roof, hardwood floors; Chas. M. Robinson, Inc., Archt., Times-Dispatch Bldg., Richmond; C. C. Terrill, Engr., Maidens; owner building. See Want Section—Building Material and Equipment. 10-24

W. Va., Franklin—School Bd. let contract at \$24,437 to C. E. Lee & Son for high school. 5-23

### Stores

Ala., Birmingham—Shepherd Sloss Realty Co., Protective Life Bldg., started work on \$15,000, 2-story, 52x70 ft., brick and stone store, 29th St. and Ave. H. South, built-up roof, wood floors; Chas. H. McCauley, Archt., Jackson Bldg.; owner builds.

Fla., Tampa—Mrs. A. S. Weekley, 436 W. Lafayette St., has permit for \$10,000, 1-story, 86x60-ft. brick store, Ashley and For-

tune Sts.; Frank Dunham, Archt., 608 Tampa St.; J. T. Beasley, Contr.

Ga., Atlanta—J. G. McCrory Co., 1107 Broadway, New York, let contract to C. F. Nonnemaker, Bona Allen Bldg., Atlanta, for improvements to building on Whitehall St.

Ga., Atlanta—Massell Realty Co., 61 Poplar St., N. W., erect \$20,000, 2-story and basement, 35x100 ft., brick store and office, 24-26 Cain St., N. E.; E. C. Seiz, Archt., 165 Spring St., N. W.; owner builds.

La., Monroe—Robert Layton let contract at \$9474 to W. L. Morris for 1-story, 30x100-ft. brick store, Jackson St. and Ouachita Ave.; Jitney Jungle Chain Grocery Store, Lessee; Clarence King Co., Archt., Bernhardt Bldg.

La., Shreveport—J. M. Bryson let contract to Werner Co., Inc., Commercial Bank Bldg., for 1-story, 40x80 ft., brick building on Texas Ave. near Pierre St.; E. A. George, Archt.

Miss., McComb—J. H. Brent started work on 2-story business building on North Broadway.

Mo., Carthage—D. W. B. Kurtz let contract to Ira L. Davis for 2-store building on Ash St.

N. C., Greensboro—J. R. Donnell, Southern Life & Trust Bldg., let contract to T. M. Starr, 127 McIver St., for \$10,000, 1-story, 40x60 ft., brick and conc. store, Summit Ave. and Hendley St.; hardwood floors; Atlantic and Pacific Tea Co. to lease one of storerooms; Joseph J. Sawyer, Archt., Jefferson Bldg., will supervise construction.

N. C., Lexington—L. S. Costner, Cherryville, has contract to erect 2-story and basement, 80x29 ft. addition to Hankins Bldg., for lease to McLellan Store, Foster Pottery Co., C. M. Wall & Sons; Percy Bloxam, Archt., Wallace Bldg., Salisbury.

N. C., Winston-Salem—Masonic Temple Co. let contract at \$41,700 to Goode Construction Co., Wachovia Bk. Bldg., Winston-Salem, for 2-story and basement, 90x65 ft., brick, steel and stone store, W. Fourth and Trade Sts., to be leased to Lerner Stores, Inc., 354 Fourth Ave., New York; terra cotta trim, rein. conc. floor slab construction; Charles N. Winston & Bro., Archts., Columbia Circle, New York; Hall Crews, Asso. Archt., Robert E. Lee Hotel, Winston-Salem. 8-22

Okla., Tulsa—J. T. Klester, S. E. of city, let contract to C. D. Cooper, 2653 S. Trenton St., for 3-story, brick and tile store and apartment; shingle roof, English type; L. E. Blue, Archt., Mayo Bldg.

S. C., Greenville—W. Frank Hipp, Blue Bldg., let contract to Paul Oeland, 324 N. Stone Ave., for \$10,000, 1-story and basement, 90x60 ft., brick and hollow tile, 4-store building, Augusta and University Sts.

Tenn., Memphis—John Kinbrough let contract to J. A. Haley, both Exchange Bldg., for two \$15,000, 1-story conc. stores, Union Ave. and Willett St.; comp. roofs, conc. and wood floors; H. M. Burnham, Archt., Goodwyn Institute Bldg.; Ray Boaz, 1091 Union Ave., and Arthur Seelbinder, 265 S. Cleveland St., Lessees. 9-12

Tex., Beaumont—Mrs. C. H. Saunders, 2135 College St., erect \$20,000, 2-story, brick building on Calder Ave. for gift and floral shop, tea room and apartment; Spanish design; Charles F. Law, Contr., Perlestein Bldg.; Floyd P. Johnston, Archt.

Tex., Beaumont—Henry Bros., 2410½ Calder St., erect \$18,000, 1-story, brick store, Calder Ave. and Ninth St.; Herman Weber, Contr., Perlestein Bldg.; Thames Drug Co. and Atlantic and Pacific Tea Co., Lessees.

### Theaters

Md., Baltimore—Edmondson Amusement Co., L. J. Schlichter, Mgr., 2108 Edmondson Ave., let contract to Consolidated Engineering Co., 20 E. Franklin St., for \$75,000 theatre, Pulaski St. and Edmondson Ave.; John J. Zink, Archt., 2826 Overland Ave. 10-3

Mo., St. Louis—Monte Catering Co., H. D. Seekamp, Pres., 3916 Sullivan Ave., started on improvements to 1-story, 97x210 ft., brick and rein. conc. theatre, 5620 Delmar Blvd.; International Co., Contr., 3115 S. Grand Blvd.

S. C., Gaffney—Lyman Hamrick started work, under direction James B. Gaffney, on sound picture theater on Limestone St.

### Warehouses

Ala., Birmingham—Western Grain Co., 1716 N. 10th Ave., let contract to Southern Construction Co., 615 S. 11th St., for 4-story, 45x80 ft., brick warehouse; comp. roof, conc. and wood floors, sprinkler system.

Fla., Orlando—Standard Oil Co., F. T. Swartz, Tampa, in charge of construction, has permit for \$15,000, 2-story, 106x133 ft., brick, stone, conc. and steel warehouse and office, 400 W. Robinson Ave.; A. E. Arthur, Contr., Smith Bldg.

Mo., Kansas City—Massey Harris Co., P. D. Crouch, Mgr., 1310 W. 12th St., erecting 140x200-ft. storage unit adjoining present warehouse in Fairfax Industrial Dist.

Mo., Springfield—Missouri Farmers Assn., Inc., C. French Davis, Mgr., 540 Benton Ave., let contract to F. M. Davis for \$40,000, 2-story, conc. warehouse, Phelps and Boone Sts.

Mo., St. Louis—Fischman & Harris, 639 Chestnut St., erect \$10,000, 1-story, 75x124-ft. brick warehouse, 3131 Washington St.; tar and gravel roof; B. Shapiro, Archt., Syndicate Trust Bldg.

S. C., Greenville—Standard Oil Co. let contract to Morris-McKoy Building Co., Finley Bldg., for 60x200 ft., rein. conc. warehouse addition; also improve yards, erect office, install new tanks and improve other buildings; total \$80,000.

Tenn., Memphis—Dealers Equipment Co., R. H. Rust, Mgr., 1434 Riverside Blvd., let contract to B. E. Buffaloe Construction Co., 658 East St., for 1-story, 316x60-ft. corrugated iron warehouse; comp. built-up roof, conc. and wood floors. 10-24

Tex., Houston—E. G. Edson, Magnolia St., Beaumont, let contract to Christy-Dolph Construction Co., Construction Industries Bldg., Dallas, for \$35,000, 1-story warehouse, Walker Ave. and Rice St.; 15,000 sq. ft. floor space.

## Trade Literature

**Steel Tray Barrows.**—Catalogue No. 9, in two sections, is being distributed by the Chattanooga Wheelbarrow Co., Chattanooga, Tenn., manufacturers of wheelbarrows and similar products. The first section deals with the latest development in the manufacture of constructor type wheelbarrows, while the second section is devoted to wood tray, light steel tray, garden and special type barrows; fertilizer, hand and concrete carts, drag scrapers and trucks.

**Piping.**—The Linde Air Products Company, New York, a unit of the Union Carbide and Carbon Corporation, is distributing a booklet covering design standards for Oxwelded steel and wrought iron piping. The publication is the first of a series describing designs of pipe welding, including line welds, welded flanges, welded fittings and welded headers.

**Trucks.**—Lift truck circular Number 100 and other literature, issued by the Lewis-Shepard Company, Watertown Station, Boston, Mass., describes and illustrates the new Lewis-Shepard footlift truck designed for loads up to 3500 pounds. The truck is claimed to embody the most important and far reaching developments in lift truck construction in more than 15 years.

**Trusecon Ferrobord Roofdeck.**—Booklet No. 213, issued by the Trusecon Steel Company, Youngstown, Ohio, covers erection data and specifications on Trusecon Ferrobord Armco ingot iron roofdeck. It details methods of installation of this metal roofdeck, quickly and economically, to provide a thoroughly modern insulated, waterproof, fireproof and permanent job.

**Wood-Products Plants.**—A booklet being distributed by the Louisville Industrial Foundation, Inc., Louisville, Ky., discusses the advantages offered by that city for the operation of wood-products plants.



# WANT SECTION

## THE CLASSIFICATIONS IN THIS SECTION ARE:

| Machinery and Supplies  | Building Materials and Equipment   | Bids Asked  |
|---|--|---|
| Under this heading are reported requests for data, prices and literature and information on machinery, supplies and miscellaneous materials of a wide variety.                                      | This division comprises all classes and kinds of materials and equipment used in building and construction projects of every kind. | Includes bids asked by U. S. Government, States, districts, municipalities, firms and individuals for machinery, materials, supplies and construction work. |
| <i>Items in this department are published without charge and these columns are open for the publication of wants of all kinds relating to construction work, machinery, materials and supplies.</i> |  |   |

### Machinery and Supplies

**Engine (Diesel).**—Chant Branham & Co., Pound, Va.—Wants prices and data on used Diesel oil engine, 60 h. p.

**Gold and Silver Mining Machinery.**—San Jose Mining Corp., Nuevo Union Dto de Rayon, Chihuahua, Mexico—Wants prices and data on machinery and modern methods of treating silver and gold bearing ore.

**Pump.**—R. P. Johnson (Mchy. Dealer), Wytheville, Va.—Wants prices and data on plunger type pump, total head 50 ft., 300 g. p. m. capacity, without power.

**Refrigerating and "Dry Ice" Machinery.**—Wright, Stevens & Co., DeLand, Fla.—Wants prices and data from manufacturers of refrigerating machinery and "Dry Ice" machinery.

**Eagle Publishing Co., A. F. Dean, Pres., Gainesville, Ga.**—Wants prices and data on following:

- (1) **Folding Machine**—for newspaper
- (2) **Press**—newspaper.

**Manila Sentinel, Kendall Berry, Editor and Publisher, Main St., Manila, Ark.**—Wants prices and data on following:

- (1) **Casting Box**
- (2) **Perforator**—used
- (3) **Press (Cylinder)**—similar to Walter Scott or Meihle
- (4) **Press (Job)**—new or used
- (5) **Punch**
- (6) **Saw.**

**Nehi Bottling Co., E. H. Gale, Mgr., 2020 Port Arthur Rd., Beaumont, Tex.**—Wants prices and data on following:

- (1) **Bottling Machine**
- (2) **Ice Plant.**

**Guyan Machine Shops, Inc. (Mchy. Dealer), Logan, W. Va.**—Want prices and data on following:

- (1) **Generator**—d. c., 550 volt, direct connected to steam engine, preferably 400 kw.
- (2) **Generator (Motor)**—150 or 200 kw., 250 volts, d. c., 2300 volts, 3 phase, 60 cycle, a. c.
- (3) **Hoist**—for I beams, 250 volts, d. c., 1 or 2 ton capacity
- (4) **Lathe**—for turning steel tires and steel locomotive wheels up to 40-in. diam. and 32 to 48-in. gauge
- (5) **Punch and Shear**—preferably No. 1½ Buffalo Universal Iron Worker
- (6) **Transformers**—3, 50 kv-a., 60 cycle, 440-206 volts

**South Carolina Pottery, Mark Baynham, Prop., Augusta, Ga.,** with plant at North Augusta, S. C., rebuilding pottery plant and wants prices and data on following:

- (1) **Clay Machinery**
- (2) **Dryer (Waste Heat).**

**Tennessee Cereal Co., B. W. Ernst, Pres. and Mgr., Franklin, Tenn.**—Wants prices and data on following:

- (1) **Cookers (Steam)**
- (2) **Dryers (Electric)**
- (3) **Rolling Mills**
- (4) **Toasters (Electric).**

### Miscellaneous

**Amusement Park Equipment.**—William H. Hill Estate, C. F. Taylor, Executor in charge, 1010-11 W. Coast Title Bldg., St. Petersburg, Fla.—Wants prices and data from manufacturers of amusement park equipment.

**Books.**—H. B. French, 3908 Cottage Ave., Baltimore, Md.—Wants prices, lists and catalogs on used books on the Confederacy, Civil War and other allied subjects.

**Tubes (Collapsible).**—J. S. Reeves, 1735 Pine St., San Francisco, Calif.—Wants prices and data from manufacturers of collapsible tubes, similar to tooth paste tubes.

### Building Material and Equipment

**Ledsinger & Turner, Contrs., New Castle St., Brunswick, Ga.,** want prices on following for \$31,500 courthouse, Nahunta, Ga.:

**Cast Stone**  
**Clock**  
**Metal Ceilings**  
**Roofing (hip)**—asbestos shingle  
**Vault Doors.**

**Seminole Hotel, George W. Thomas, Prop., Seabreeze, Daytona Beach, Fla.**—Wants prices and data on following:

**Tablecloths**  
**Curtains**  
**Dishes**  
**Draperies**  
**Linens**  
**Oil Burner**—for water heater  
**Silverware**  
**Towels.**

**South Carolina Pottery, Mark Baynham, Prop., Augusta, Ga.,** plant at North Augusta, S. C., rebuilding pottery plant and wants data and prices on following:

**Window Sash**—100 to 200

**Roofing.**  
**C. E. McClintock, Supt., Virginia Industrial School for Boys, Maidens, Va.,** wants prices on following for \$25,000 dormitory.

**Flooring**—hardwood  
**Metal Ceiling**  
**Roofing**—slate  
**Steel Sash and Trim**  
**Ventilators**  
**Wire Glass**

**Chas. C. Hook, Archt., Commercial Bk. Bldg., Charlotte, N. C.,** wants prices on following for \$80,000 hospital, Mooresville, N. C.:

**Electric Refrigerators**  
**Elevator**  
**Flooring**—linoleum, tile  
**Incinerator**  
**Limestone**  
**Marble**  
**Metal Doors**  
**Roofing**—built-up  
**Tile**—hollow  
**Ventilators.**

**Giesecke & Harris, Archts., Norwood Bldg., Austin, Tex.,** want prices on following for \$15,000 dining hall at State School for Deaf and Dumb, Austin:

**Flooring**—hardwood, linoleum  
**Limestone**  
**Metal Ceiling**  
**Plaster Board**  
**Roofing**—built-up.

**Jacob E. Salie, Archt., Empire Bldg., Birmingham, Ala.,** wants prices on following for \$25,000 dwelling:

**Electric Refrigerator**  
**Flooring**—hardwood, tile  
**Roofing**—slate.

**J. R. Ellis (Bldr.), 2018 Second Natl. Bank Bldg., Houston, Tex.,** wants prices from manufacturers on:

**Bathroom Fixtures**—lavatories, tubs, toilets, ceramic tile for walls and floors, tile accessories for walls

**Electric Lighting Fixtures.**  
**Witman & Royer, Archts., 36 E. Market St., York, Pa.,** want prices on following for \$12,000 dwelling, Mount Dora, Fla.:

**Celotex**  
**Flooring**—hardwood, composition  
**Roofing (hip)**—wood shingle built-up  
**Tile**—interior.

**Q. E. Herman, Archt., Hickory, N. C.,** wants prices on following for 2-story and basement warehouse for L. L. Frye:

**Elevators**  
**Meta Ceiling**  
**Metal Doors**  
**Roofing**—built-up

### Bids Asked

**Air Compressors.**—Comms. District of Columbia, Washington, D. C.—Bids Nov. 4 for portable air compressor and hoist for use at D. C. penal institution.

**Ambulance (Motor).**—Bureau of Supplies and Accounts, Navy Dept., Washington, D. C.—Bids Nov. 5 for motor ambulance for naval powder factory, Indian Head, Md.

**Boilers.**—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Nov. 6 for 40 boilers, delivery, Quantico, Va.

**Bridges.**—State of Maryland. Bids for 3 bridges. See Construction News—Bridges, Culverts, Viaducts.

**Bridges.**—State of Missouri. Bids for 25 bridges. See Construction News—Roads, Streets, Paving.

**Bridges.**—State of Virginia. Bids for 6 bridges. See Construction News—Bridges, Culverts, Viaducts.

**Bridges.**—Holly Springs, Miss. Bids for 4 bridges. See Construction News—Roads, Streets, Paving.

**Cement Curb.**—Supervising Archt., Treasury Dept., Washington, D. C.—Bids Nov. 8 for cement curb at immigration station, Baltimore, Md.

**Elevator Alterations.**—U. S. Veterans' Bureau, Room 764, Arlington Bldg., Washington, D. C.—Bids Nov. 12 for alterations to elevator in main building, U. S. veterans' hospital, Augusta, Ga.

**Floor Surfacing Machine.**—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Nov. 4 for floor surfacing machine, delivery Quantico, Va.

**Fuel Oil.**—General Pur. Officer, Panama Canal, Washington, D. C.—Bids Nov. 18 for fuel oil, Sch. 2594.

**Furniture.**—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Nov. 4 for furniture, delivery Quantico, Va.

**Furniture.**—Q. M. Marine Corps, Washington, D. C.—Bids Nov. 4 for tables, chairs, wicker furniture, desks, bookcases, etc.

**Hose and Nozzles.**—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Nov. 5 for furnishing 2000 ft. hose and 72 nozzles, delivery Quantico, Va.

**Levee.**—Louisiana—See Construction News Columns—Miscellaneous Construction.

**Machine Shop Equipment.**—Bureau of Supplies and Accounts, Navy Dept., Washington, D. C.—Bids Nov. 12 for following: Motor driven cutter and tool grinders, motor driven engine screw-cutting lathes, motor driven combination saw, motor driven bar shears.

**Machine Shop Equipment.**—Bureau of Supplies and Accounts, Navy Dept., Washington, D. C.—Bids Nov. 12 for following: Electric tool chests, motor driven inclinable press, milling machine, motor driven universal milling machine, engine lathe, motor driven bolt threading and cutting machine, electric tools, motor driven band saw machine, motor driven power brake, motor driven squaring shear; Nov. 19 for: motor driven pipe cutting machine, electrically driven vertical punch and shear, universal turret lathes, electrically driven gate shear, electrically driven double angle shear, single spindle vertical shaper, rod and dowel machine.

**Paving.**—Monroe, La. See Construction News—Roads, Streets, Paving.

**Pump and Motor.**—Constructing Q. M., Randolph Field, Tex.—Bids Nov. 8 for furnishing and installing deep well pump and motor in 12-in. casing.

**Recorders (Time).**—Marine Corps, Q. M. Dept., Washington, D. C.—Bids Nov. 4 for 200 recorders, time interval, delivery Philadelphia, Pa.

**Retement.**—Louisiana—See Construction News Columns—Miscellaneous Construction.

**Roads.**—State of Missouri. Bids for 26 roads. See Construction News—Roads, Streets, Paving.

**Road.**—Arlington, Va. See Construction News—Roads, Streets, Paving.

**Road.**—Cleveland, Miss. See Construction News—Roads, Street, Paving.

**Road.**—Titusville, Fla. See Construction News—Roads, Streets, Paving.

**Roads.**—State of Louisiana. Bids for 2 roads. See Construction News—Roads, Streets, Paving.

**Roads.**—Wichita Falls, Tex. Bids for 2 Roads. See Construction News—Roads, Streets, Paving.

**Screens.**—Supervising Archt., Treasury Dept., Washington, D. C.—Bids Nov. 12 for insect screens in P. O., Shelbyville, Ky.

**Soaps, etc.**—Q. M. Supply Officer, Ft. Sam

Houston, Tex.—Bids Nov. 15 for shoe polish, talcum powder, shaving and toilet soap, toothpaste, etc.

**Street.**—Galveston, Tex. See Construction News—Roads, Streets, Paving.

**Twine, etc.**—Depot Q. M., Marine Corps, Philadelphia, Pa.—Bids Nov. 5 for 40,000 ft. of clothesline and 5000 lbs. jute twine.

**Wire Grilles.**—U. S. Veterans' Bureau, Room 764, Arlington Bldg., Washington, D. C.—Bids Nov. 19 for constructing, installing and finishing complete wire grilles for doors windows, etc., in 3 buildings, including alterations and additions, U. S. veterans' hospital, Tuskegee, Ala.

**Industrial Development.**—A summary of industrial development in the United States and Canada in 1926 and 1927 is embodied in a booklet prepared through a cooperative survey by the Civic Development Committee of the National Electric Light Association and the Policyholders Service Bureau of the Metropolitan Life Insurance Co., both of New York. The final report of the Committee is the result of intensive work over a long period of time.

**Port of Baltimore.**—The 1929 Yearbook of the Port of Baltimore has been issued by the Export and Import Bureau of the Baltimore Association of Commerce, G. H. Pouder, director. The publication contains full information on the commerce, facilities, advantages and economies of the port.

## INDUSTRIAL NEWS OF INTEREST

Items of news about industrial, railroad or financial interests, building operations, construction work, municipal improvements, or the sale of machinery or the letting of contracts in the South or Southwest, are invited from our readers, whether they are advertisers, or subscribers, or not. We invite information of this character from readers in the North and West about their Southern business operations, as well as from Southern readers. News of value will be published just as readily when from non-advertisers as from advertisers.

### Equipment for Treating Coal.

Equipment for handling calcium chloride treatment of coal, which is said to keep it in a slightly damp and dustless condition, and which was referred to in these columns recently, is manufactured by the Coal Treating Equipment Co., Cleveland, Ohio, and also by the Hardie Manufacturing Co., Hudson, Mich. The Coal Treating Equipment Company's apparatus consists of a steel tank with proper agitating equipment to mix the flake or solid calcium chloride with water, and an enclosed, automatically oiled, high pressure pump to vaporize the solution when thrown upon the coal. The equipment is used at mines, docks and retail yards. The Hardie Manufacturing Co. uses the Hardie power pumps it manufactures for regular high-pressure sprayer systems for orchards and crops, the coal spraying equipment containing several modifications, making it suitable for the purpose intended. Calcium chloride is manufactured by the Solvay Process Co., Syracuse, N. Y., and sold by Solvay Sales Corp., New York City.

### Waterworks and Franchise Offered.

The city waterworks of Murfreesboro, N. C., including franchise, ice plant and 10-room residence owned by George H. Campbell, will be offered at public sale November 20 at 12 o'clock by J. A. Campbell, Murfreesboro. The property consists of pipe lines, fire hydrants, 12,000-gallon tank, 22,000-gallon reservoir, artesian well and other property.

### Caldwell on Bankers' Board.

Rogers Caldwell, president of Caldwell & Company, Nashville, Tenn., investment bankers, has been elected to the board of governors of the Investment Bankers Association of America, according to announcement by that organization, in convention in Quebec, Canada. Mr. Caldwell's term will expire in 1932.

### Wappat, Inc., Division of Simonds Saw.

The Wappat Gear Works, Pittsburgh, Pa., under the name of Wappat, Inc., recently became a division of the Simonds Saw and Steel Company, Fitchburg, Mass. This concern and its 14 branches will distribute Wappat products, consisting of various tools to be added to the Wappat line.

### Caterpillar Tractors in South.

The Caterpillar Tractor Co., San Leandro, Calif., has appointed Jefferson Irwin Davis, until recently county agent of Dougherty County, Georgia, to the agricultural sales staff of the Caterpillar organization. Mr. Davis is to promote the wider use of Caterpillar tractors in Southern agriculture.

### Changes for Cement Mortar.

Changes in specifications for cement mortar protection or "gunite" are suggested by John V. Schaefer, president of the Cement-Gun Construction Company, Chicago, engineers and builders. These suggested specifications are designed to be more flexible in respect to sand cement mix, enabling contractors to take advantage of the company's present knowledge of the bulking of sand and producing a "gunite" of greater uniformity than is possible under specifications as commonly written.

**Ferrous Metals.**—The third quarterly issue in 1929 of the Pure Iron Era of the Armeo International Corporation of New York, London, Paris and Cologne, contains several articles dealing with the use of ferrous metals, including: The World Trend Back to Iron; Trends in World Trade, and kindred subjects.

**Crushers.**—Adapted to crushing coal, coke and lignite, the American rolling ring crusher is described and illustrated in a folder being distributed by the American Pulverizer Company, St. Louis, Mo., manufacturers of the machine. The crusher is stated to be of simple construction, with all grinding parts easily accessible.

## Book Review

Delaware Corporations and Receiverships, 4th Edition. By Josiah Marvel, Esq., of the Delaware Bar. Published by Corporation Service, Wilmington, Del. 343 pp. Price \$5.

Enlarged and revised with an index much expanded, the fourth edition of Delaware Corporations and Receiverships is just off the press of the George F. Lasher Printing Co., Philadelphia. This volume, which first appeared in 1923, has been brought up to date at two-year intervals and contains not only the statute law pertaining to Delaware corporations but also has annotations from court decisions and recently revised forms. It should be of interest and value to executives of Delaware corporations, as it includes the 1929 amendments, improving and modernizing the law, together with improved corporation forms, decisions of courts, etc. The volume is well indexed and may be used as a guide or reference book by executives of Delaware corporations.

### Florida Tourist Travel

A weekly average of 6000 motor cars is now entering Florida according to figures compiled on the trunk highways coming into the state, says the Florida State Chamber of Commerce, which indicates that the annual trek to Florida has begun. Every state in the Union was represented in the tally except South Dakota.

In addition to the influx of automobile travel the rail carriers are opening the season with heavy reservations; Florida is enjoying better transportation facilities than in past years. Special and excursion rates effective during the fall and winter give opportunity for thousands to visit Florida more economically than in past seasons.

### Another New Industry Locates in Salisbury, Md.

Salisbury, Md.—With the announcement that the Webb Packing Co., Crisfield, will erect a \$150,000 meat packing plant and slaughter house here to employ 100 persons four new factories have selected sites in Salisbury in the past six months. When all the new factories, now under construction are completed, the industrial payroll of the city will be increased by 650. The plant, which will have a daily capacity of 1000 animals, will provide a local market for livestock raised on Eastern Shore farms.

### \$830,000 County Bond Sale

Rockville, Md.—Bonds in the amount of \$830,000 have been sold by the Montgomery County Commissioners as follows: Two issues of road bonds of \$475,000 and \$200,000, respectively, and an issue of \$130,000 courthouse bonds to the Chase Securities Corporation, New York, and the Baltimore Trust Company, Baltimore, and an issue of \$25,000 to construct a railroad underpass at Boyds, to the National City Company, New York.



## Potentialities of the Appalachian South

By EDGAR H. TUFTS, Lees-McRae College,  
Banner Elk, N. C.

The Appalachian highland of the South has been designated as the last stand of the Anglo-Saxon. The great melting pot of the lowland has fused the blood of the pioneers with numerous other races, until the population of our nation practically represents a new hybrid race. In the Appalachian mountains the Anglo-Saxon remains practically 100 per cent pure stock. There are great possibilities in the region, and the one greatest need is the development of education, a defect that is being rapidly remedied by the advent of good roads and consolidated schools.

There are 17 counties in Western North Carolina, geographically classified as mountainous. Good roads now pierce the heart of these highlands and schools are within reach of most communities. This era of progress has naturally brought about changes which give rise to another great need; namely, a solution to the economic problem.

It is natural to expect a higher standard of living as a result of education. But just how to satisfy these desires for something new and better, becomes a real problem, not peculiar to the mountains alone, but at this time a very vital one.

A comparison of these 17 mountain counties with the 36 which make up the Piedmont section of North Carolina is of interest. It is a fact that the Piedmont section has within recent years experienced great industrial development. Suppose, for example, that the total population of these 36 counties were divided into families of five each, and that the total income from all sources, for the year 1927, were divided equally between them; each family would receive a total income of \$2,390 for that year. The average family in the 17 mountain counties received, over the same period of time, only \$594. In other words, the average family in the Piedmont area has an income four times greater than the average family living in the mountains.

Agriculture in the mountains never has and it probably never will give sufficient income to furnish the higher standards of living that one has a right to expect. The manufacture of lumber at one time gave employment but this is now exhausted in most localities. Opportunities for development are many. The population is industrious and will furnish unlimited supply of efficient labor; there is abundance of cheap electric power available from small hydro-

electric plants of a more or less local nature, and some of the larger public service companies, feeling there is a future, have already extended their services into the mountains. Difficult transportation, which once existed, has been practically overcome, either by railroad, or by hard-surfaced highways which reach into almost every community.

In behalf of the future development of the mountains it is hoped that those with capital to invest may be induced to take advantage of the opportunities offered and at the same time render a real service in the way of helping to find a solution to the economic problem which is so vital to the Appalachian highland.

## Mississippi, Alabama and Florida Products Exhibited in Middle West

Carrying the story of the region traversed by the Frisco's new line to Pensacola, Fla., to people on the Frisco Lines in its middlewestern territory, a newly equipped exhibit car with displays of resort features, forest products, floriculture, preserved and fresh fruits and vegetables, and horticultural and agricultural products, numbering more than 700 exhibits, is visiting towns and cities of six states as an initial itinerary. The products were grown in Mississippi, Alabama, and West Florida, and range from semi-tropical fruits and vegetables from the section near the Gulf to products of the great cotton, corn and alfalfa section farther north along the line.

## Bank Capitalized at \$4,000,000

Louisville, Ky.—Articles of incorporation of the Bank of Kentucky, Louisville, with a capital stock of \$4,000,000, have been approved by the Secretary of State. Incorporators of the bank include John S. Akers, H. J. Angemeier, Dr. Oscar Block, R. Lee Callahan, Anthony Carroll, George M. Clark, Samuel W. Coons and others.

## To Repack Florida Tomatoes

The American Repacking Company, Inc., was recently incorporated under Maryland laws, to repack Florida tomatoes. It occupies space at 1113 South Howard street, Baltimore, and will receive tomatoes on consignment, which will be repacked, ripened and sold, the company remitting to shippers at the market price of original packs. Brooks Rogers is president and secretary of the company and Frank L. Skill, vice-president and treasurer.

## Amusement Park for Miami

Miami, Fla.—Construction has started on a new amusement park to occupy a 30-acre site on Coral Way boulevard, between this city and Coral Gables. The project has been undertaken by the Miami Exposition and Amusement Park, Inc., of which L. D. Llewellyn is president; Frank H. Wharton, first vice-president; Judge David Heffernan, second vice-president; Robert Pentland, Jr., treasurer; Marvin D. Adams, assistant treasurer; W. W. Colson, Jr., secretary; E. E. Westman, assistant secretary; C. F. Rhodes, director general, and Ferman Wilson, director of publicity. The park site will be enclosed by an ornamental stucco fence, 16 feet high, with panels for advertising display, construction to start immediately. Grounds have been leveled and work on the main entrance, for which plans were prepared by George L. Pfeiffer, Miami, will begin soon. Other activities will include the stringing of wires, building sidewalks, installing underground pipes and lighting standards, landscaping and planting flowers and shrubbery. John A. Miller, of the John A. Miller Company, Detroit, Mich., is the designing architect in charge.

## \$9,000,000 Waterway Completed

Norfolk, Va.—Extending for a distance of more than 200 miles the new inland waterway from Norfolk to Beaufort, N. C., has been completed at a cost of approximately \$9,000,000, according to Colonel Henry M. Jewett, United States Army district engineer at Norfolk. This is one of the most important inland waterways on the Atlantic coast and has been under construction for several years.

## 48-Story Building Proposed

Kansas City, Mo.—The construction of a 48-story Steuben Club building here is being promoted by Henry J. Greune and Walter R. Miller, who recently promoted a similar building in Chicago. The promoters have taken up their residence here and have had preliminary surveys made for the structure by Walter W. Ahlschlager, a Chicago architect, who prepared plans for the Steuben building in that city.

## \$5,000,000 School Bonds Voted

Kansas City, Mo.—Voters of Kansas City have authorized an issue of \$5,000,000 school bonds in an election which carried by a majority of more than 8 votes to 1. A tabulation of votes by James B. Jackson, secretary of the Board of Education, indicates a total of 42,580 votes for the bonds and 5199 against.

## BIG DREDGING CONTRACT AT TAMPA

Project to Provide Channel for Large  
Phosphate Plant

Tampa, Fla.—The Clarke Dredging Company, Miami, Fla., has been awarded contract for dredging at the plant of the U. S. Phosphoric Products Corporation, at the mouth of the Alafia River and Hillsborough Bay, South Tampa. According to A. H. Chase, New York, vice-president of the corporation, work will begin within a few days and is expected to be completed within 8 months. This contract is rated as one of the biggest of its kind ever awarded in Florida, calling for a channel from the plant to the deep water channel, a distance of 3.5 miles, and of sufficient depth to accommodate heavy draft ships. The U. S. Phosphoric Products Corporation plans to fill in and bulkhead along the river adjacent to its plant, for a distance of 3000 feet, thus reclaiming an area which will be available for a number of industrial sites. Work has been started on a sulphuric acid plant, as well as a superphosphate plant to duplicate one now in operation, and the project will also include a turning basin in the river about a quarter of a mile west of the Alafia River bridge.

## To Manufacture Silicate of Soda Products

The Philadelphia Quartz Co., Philadelphia, Pa., has purchased a 4-acre tract of land in the Locust Point section, Baltimore, for constructing a branch plant, according to the Industrial Bureau of the Baltimore Association of Commerce, which has been in contact with the company since 1921. This company is one of the largest manufacturers of its kind in the world, it is said, making principally silicate of soda in its various forms and used as adhesives, preservatives and impervious coatings. It operates plants in Philadelphia and Chester, Pa.; Anderson, Ind.; Buffalo and Utica, N. Y.; St. Louis and Kansas City, Mo., and Rahway, N. J. Its officers include William T. Elkinton, president; T. W. Elkinton, vice-president; James G. Vail, secretary; F. A. Evans, treasurer, and William Martin, purchasing agent.

## \$650,000 Fort Worth Church

Fort Worth, Tex.—The building committee of the First Methodist Episcopal Church of this city, J. B. Baker, chairman, has awarded contract to Harry B. Friedman, Fort Worth, to erect a new \$650,000 building at West Taylor and Seventh streets. The structure will be

of Gothic architecture, with a main auditorium and open court, 17 assembly rooms, 88 classrooms, banquet room to seat 700, chapel, library and other facilities. W. G. Clarkson & Co., Fort Worth, are the architects.

## Southern Railway Adopts Comprehensive Insurance Plan

The Southern Railway System Employees' Pension Association, an association duly organized and incorporated, announces, through its executive committee, of which J. B. Mahoney of Chattanooga is chairman, the creation of an ex-parte pension plan and a plan of group accident and health insurance protection available to all employees of the Southern companies, to which plans the Southern Railway Company and its affiliated companies have assented. Contracts for underwriting these two plans of insurance protection are probably the largest of their kind ever awarded and afford, in conjunction with a plan of group life insurance now available to the Southern's employees, complete protection against hazards of death, disability and dependent old age to approximately 60,000 employees, producing an annual premium of about \$2,500,000.

The association selected the Equitable Life Assurance Society of the United States to underwrite its pension or old age annuity scheme, and the Provident Life and Accident Insurance Company of Chattanooga, Tenn., to carry the group accident and health protection feature.

The Southern Railway Company delegated A. H. Plant, Assistant to the President, as the officer of Southern Railway System to direct and handle such of the details of the pension plan as devolve upon the railway organization.

Employees of the following individual companies are eligible for protection:

Southern Railway Company.  
Alabama Great Southern Railroad Company.  
Cincinnati, New Orleans & Texas Pacific Railway Company.  
Georgia Southern and Florida Railway Company.  
New Orleans and Northeastern Railroad Company.  
Cincinnati, Burnside & Cumberland River Railway Company.  
St. Johns River Terminal Company.  
New Orleans Terminal Company.  
Northern Alabama Railway Company.  
Harriman and Northeastern Railroad Company.  
High Point, Randleman, Asheboro and Southern Railroad Company.  
Carolina and Northwestern Railway Company.  
Chattanooga Station Company.  
Danville & Western Railway Company.  
Winston-Salem Terminal Company.  
Columbia Union Station Company.  
Durham Union Station Company.  
Birmingham Terminal Company.  
Blue Ridge Railway Company.  
Yadkin Railroad Company.  
Carolina & Tennessee Southern Railway Company.  
State University Railroad Company.  
Savannah & Knoxville Railroad Company.  
Atlanta Terminal Company.

## \$6,000,000 MISSOURI POWER PROJECT

To Develop 12,000,000 Kilowatt Hours  
Annually on Niangua River  
Near Lebanon

Lebanon, Mo.—The Central States Power & Light Company, Chicago, a subsidiary of the Central States Utilities Company, has begun construction on a hydro-electric power project on the Niangua River, about 27 miles northwest of Lebanon. The design and construction of the plant are being handled by the Management and Engineering Corporation, Chicago, and it is understood that an expenditure of \$6,000,000 may be involved in the project. The work will include a 400-foot dam, 17 feet high, with an 800-foot tunnel, 13 by 13 feet, cut through a limestone cliff, together with the installation of two generating units having a production capacity of 12,000,000 kilowatt hours annually. Before the dam may be built, it is understood the contractors will build a 15-mile, 12-foot gravel road to the dam site, construction having already begun. Upon completion of the dam and powerhouse, the plant will be connected with the system at Lebanon by a high line.

## Coal Operators' Officers

Charleston, W. Va.—At the twenty-fifth annual meeting of the Kanawha Coal Operators' Association here, the following officers were elected: W. M. Wiley, Sharples, W. Va., president; F. O. Harris, Cannelton, W. Va., vice-president, and John L. Dickenson, treasurer. A silver service was presented D. C. Kennedy, who was elected executive secretary for the twenty-fifth consecutive term.

## \$3,000,000 Bond Issue Offered

New Orleans, La.—The city board of liquidation will open bids November 12 for the purchase of \$3,000,000 sewerage and water bonds, the proceeds to be used for carrying out the board's \$14,000,000 three-year extension program. Rudolf S. Hecht, president of the Hibernia Bank and Trust Co., is a member of the board.

## \$3,300,000 Port Arthur Bonds

Port Arthur, Tex.—The City Commission has tentatively selected November 26 as the date of an election on a bond issue of \$3,300,000 for the following purposes: Seawall, \$2,000,000; streets and bridges, \$575,000; drainage, \$280,000; pleasure piers, \$300,000; park improvements, \$30,000 and water and sewer extensions, \$115,000.



## The Basis of Good Judgment

Management is often capable of better judgment than it uses.

It is not so much the lack of capacity to judge correctly as it is a lack of correct facts and figures on which to base judgment.

Business climbs from red to high black on *knowledge* of conditions, coupled with sane action.

When management establishes a competent source and better supply of *knowledge*, the waste in its previous judgment is apparent.

Modern accountancy develops the knowledge and organizes the sources of it. The judgment of good management applies it. *Greater* success is the result.

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WHEELING  
ERIE  
ATLANTA  
MIAMI  
TAMPA  
CINCINNATI  
DAYTON  
LOUISVILLE  
HUNTINGTON

CLEVELAND  
AKRON  
CANTON  
COLUMBUS  
YOUNGSTOWN  
TOLEDO  
ST. LOUIS  
MEMPHIS  
KANSAS CITY  
OMAHA

CHICAGO  
MILWAUKEE  
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ST. PAUL  
INDIANAPOLIS  
FORT WAYNE  
DAVENPORT  
DENVER  
DETROIT  
GRAND RAPIDS  
KALAMAZOO

NEW ORLEANS  
JACKSON  
DALLAS  
FORT WORTH  
HOUSTON  
SAN ANTONIO  
WACO  
SAN FRANCISCO  
LOS ANGELES  
SEATTLE

# FINANCIAL NEWS

## Bond Issues Proposed

Ala., Mobile—School—City Commrs. S. H. Hendrix, Clk., received high bid from Eldredge & Co., New York, \$150,285 and accrued interest, for \$150,000, 5%, \$1,000 denom. bonds. 10-17

Fla., DeLand—Bd. of Bond Trustees, E. R. Conrad, receives bids Nov. 18 for \$20,000, 6%, \$1,000 denom. bonds.

Fla., Highland City—Polk County Bd. of Public Instruction, Bartow, called election for Nov. 15 on \$25,000 bonds.

Fla., Pensacola—Bridge—Escambia County Commrs. plan selling in Dec. \$200,000 bonds; Winston E. Wheat, County Engr. 10-17

Fla., Tampa—City, R. Wallace Davis, Supt. of Public Works, votes Nov. 27 on \$750,000 bonds to purchase and equip municipal airport and seaplane base. 10-17

Ga., Arlington—Courthouse—Calhoun County, C. B. Weaver, Clk., County Commrs., voted \$30,000 bonds.

Ga., Colquitt—Bd. of Education, P. Z. Geer, advises \$22,000 5½% Enterprise Consolidated School Dist. bonds were not sold, as bonds are not to be dated until Jan. 1. 10-3

Ky., Carrollton—State Highway Comm., Frankfort, plans selling \$1,418,000 bonds for bridge; J. S. Watkins, State Highway Engr.

Ga., Milan—School—City voted \$25,000 bonds; plans selling bonds.

Kentucky—State Highway Comm., Frankfort, considering selling \$10,000,000 toll bridge bonds. 5-16

La., Athens—Claiborne Parish School Bd., John E. Gray, Pres., Homer, receives bids Nov. 14 for \$100,000 bonds.

La., Ponchatoula—Bd. of Commrs. Gravity Drainage Dist. No. 2, Tangipahoa Parish, received no bids for \$240,000 5% drainage bonds; lately noted bids Oct. 19. 10-3

Miss., Ackerman—City, Mayor and Bd. of Aldermen, R. B. Fulcher, Clk., receive bids Nov. 5 for \$12,000 refunding water and light bonds.

Miss., Greenville—Washington County Chancery Court, Howard Dyer, Clk., will sell about Feb. 1 \$1,090,000 bonds: \$1,000,000, road; \$90,000, courthouse and jail. 10-10

Miss., Indianola—Water—City, Bd. of Aldermen and Mayor, plan \$30,000 bond issue.

Miss., Senatobia—Drainage—Commrs. of Jim Wolfe Creek Drainage Dist., Tate County, receive bids Nov. 4 for \$23,000 bonds.

Miss., Starkville—Road—Oktibbeha County, Will Ward, Atty., receives bids Nov. 5, for \$35,000, 5½% bonds. 10-10

Mo., Kansas City—School—City voted \$5,000,000 bonds; James B. Jackson, Sec. Bd. of Education. 8-22

N. C., Mount Airy—School Funding—Town, F. M. Moore, Clk., receives bids Nov. 5 for \$35,000, 5½% bonds.

N. C., Whiteville—Columbus County Commrs., G. C. Ratcliffe, Clk., receive bids Nov. 5 for \$40,000 not to exceed 6% school bonds.

Okla., Altus—Altus School Dist. defeated \$200,000 bond issue; T. M. Robinson, Pres., Bd. of Education.

Okla., Elk City—City receives bids soon for \$100,000 school building and gymnasium bonds.

Okla., Fairview—Electric—City voted \$30,000 bonds.

Okla., Gracemont—Water—Town, Jack Thornton, Clk., voted \$20,000 bonds.

Okla., Lawton—City considering \$530,000 bond election: \$30,000, storm sewers; \$200,000, Squaw Creek improvement; \$300,000, water works improvement.

Okla., Norman—Water—City, John T. Hamill, Mgr., has tentative plans for bond issue.

S. C., Williamston—Water—Town, W. H. Sullivan, Clk., defeated \$50,000 bond issue. 10-17

Tenn., Bristol—Street—City, W. K. Carson, Treas., plans selling \$20,000 bonds. 10-24

Tenn., Brownsville—Irrigation—Cameron County Water Improvement Dist. No. 13, Harry Nunn, Sec., voted \$500,000 bonds; Dist. No. 15, Annie Orr Houghton, Sec., voted \$199,000 bonds. 10-3, 10-10

Tenn., Centerville—Road—City, C. B. Stephenson, Recorder, plans selling \$25,000 bonds within next 30 days.

Tenn., Knoxville—City Council authorized

issuance and sale of \$1,000,000 revenue anticipation notes during new fiscal year.

Tenn., Memphis—City, Mayor Overton, plans offering for sale, in Jan. or Feb., about \$1,500,000 bonds for school, sewer, General Hospital and probably street.

Tenn., Wartrace—Water—City receives bids Nov. 4 for \$140,000, 6% bonds.

Tenn., Woodbury—Refunding—Cannon County plans issuing \$20,000, 6% bonds.

Tex., Beaumont—Road—Jefferson County considering bond election.

Tex., Beeville—Bee County votes Nov. 23 on \$160,000 bonds for road and bridge. 10-24

Tex., Belton—Road—Bell County, Academy Road Dist. No. 3-A, voted \$26,000 bonds; defeated \$150,000, Holland Road Dist. No. 1-A bonds. 9-19

Tex., Brackettville—City, Denver Keeney, Supt., probably receive bids 30 to 60 days for \$68,000, 5½%, \$500 denom. water refunding bonds. 9-19

Tex., Canadian—Road—Hemphill County Court, O. R. McMorde, County Judge, considering bond election.

Tex., Columbia—Sewer—City votes Nov. 26 on \$50,000 bonds.

Tex., Corpus Christi—City Council authorized \$215,000 bond issue: \$60,000, incinerator; \$75,000, street widening; \$15,000, municipal airport; \$10,000, storm sewer; \$10,000, sanitary sewer; \$25,000, parks; \$20,000, paving.

Tex., Corpus Christi—City, Ted Koester, Sec., plans issuing \$375,000 water plant revenue bonds.

Tex., Edna—Drainage—Jackson County Drainage Dist. No. 1, Vanderbilt Section, voted \$55,000 bonds; J. H. Tucker, Commr.

Tex., Fort Worth—City, O. E. Carr, Mgr., receives bids Nov. 19 on \$800,000 bonds: \$250,000 extend fire alarm system and construct fire alarm tower; \$250,000, bridge; \$150,000, municipal airport; \$150,000 underpass; D. L. Lewis, City Engr. 10-24

Tex., Fort Worth—Highway—Tarrant County receives bids Dec. 2 for \$2,700,000 bonds.

Tex., Jasper—City, Garland Smith, Mayor, receives bids Nov. 8 for \$250,000 bonds: \$110,000, water; \$75,000, paving; \$65,000, sewer.

Tex., Levelland—City voted \$67,000 bonds: \$48,000, water extension; \$19,000, sewer improvement. 9-26

Tex., May—May Independent School Dist. voted \$20,000 bonds.

Tex., Mineola—City considering about \$155,000 bond issue; \$100,000 for paving, city hall, water and sewer extensions; \$55,000, school.

Tex., Refugio—Water—City plans \$125,000 bond election.

Tex., Robert Lee—Road—Coke County votes Nov. 2 on bonds.

Tex., Roma—Irrigation—Starr County, Dist. No. 1, Lino Perez, Pres., authorized \$1,500,000 bond issue.

Tex., San Angelo—Road—Tom Green County Commrs. Court, J. T. Mathison, County Judge, considering bond election.

Tex., San Angelo—Tom Green County Commrs. Court, J. T. Mathison, County Judge, considering issuing \$40,000 warrants, toward Seven-Mile Crossing Bridge over Concho River.

Tex., Spearman—Water—City votes soon on \$50,000 bonds.

Tex., Sulphur Springs—Road—Hopkins County, J. J. Murray, Treas., receives bids Nov. 14 for \$600,000, 5% bonds.

Tex., Tyler—Hospital—Smith County, Will D. Pace, Judge, votes Nov. 21 on \$200,000 bonds. 10-24

Tex., Wellington—Hospital—Collingsworth County considering \$100,000 bond election.

W. Va., Charleston—City, Mayor Wertz, considering \$1,376,019 bond issue: \$500,000, undergrade crossing; \$150,000, bridge over Elk River; \$150,000, Dickinson St. extension; \$305,000, other street extensions; \$75,000, sewer; balance for other street work; H. L. Campbell, City Engr.

W. Va., Moundsville—Marshall County union School Dist. votes Nov. 5 on \$140,000 bonds. 10-10

## Bond Issues Sold

Ala., Birmingham—Courthouse—Jefferson County Bd. of Revenue, W. D. Bishop, Pres., sold \$250,000, 4½% bonds to C. W. McNear & Co., Chicago, \$775 premium. 10-17

Ark., Magnolia—Street—Bd. of Commrs., Street Improvement Dist. No. 5, W. C. Brewster, Jr., Recorder, sold \$35,000 bonds to American Southern Trust Co., Little Rock.

Ark., Monticello—City, Virgil McCloy, Mayor, sold \$35,000 improvement bonds to Union Bank & Trust Co., Monticello.

La., Dubach—Water—Town, C. C. Barham, Mayor, sold \$24,000, 6%, bonds to Dubach State Bank, par and accrued interest. 10-3

Md., Rockville—Montgomery County Commrs., Berry E. Clark, Clk., sold \$830,000, 4½%, \$1000 denom. bonds \$475,000, road, First Series, jointly, to Chase Securities Corp., New York City, and Baltimore Trust Co., 100.319 and accrued interest; \$200,000, road, Second Series, to Chase Securities Corp., et al., 100.219 and accrued interest; \$130,000, courthouse bonds to Chase Securities Corp., et al., 100.319 and accrued interest; \$25,000, Second and Eleventh Election Dist. road, National City Co., New York, 96.6099. 10-10

N. C., Asheville—B. J. Van Ingen & Co., New York and Chicago, offering \$550,000 6% bonds.

N. C., Tarboro—City sold \$115,000, 5½% electric light bonds to Braun, Bosworth & Co., Toledo, \$129 premium.

Okla., Sand Springs—Bd. of Education, E. F. Dixon, Clk., sold \$41,000, 5%, \$1,000 denom. Dist. coupon bonds to Sand Springs Home, Inc. 10-3

S. C., Columbia—Road—Richland County Commrs. sold \$275,000, 4½% bonds to Peoples Securities Corp., Charleston, at 97. 10-10

Tenn., Jackson—Road—Madison County Road Comm. sold \$200,000, 5% bonds to I. B. Tigrett & Co., Memphis, \$5,500 premium.

Tenn., Knoxville—City sold \$1,000,000 5½% revenue anticipation notes to First National Bank, New York, at par.

Tenn., Union City—City Hall—City sold \$25,000, 5½% bonds jointly, to C. E. Beck and J. P. Verhine, both Union City, \$210 premium. 9-26

Tex., Beaumont—City, J. W. Anderson, Mgr., sold \$23,000 improvement bonds to Warfield Construction Co. at par and accrued interest.

Tex., Denton—City, B. W. McKenzie, Mayor, sold \$135,000, 5½% bonds to B. F. Dittmar Co., San Antonio, par and accrued interest: \$50,000, school; \$18,000, county fair-ground and airport improvement; \$30,000, fire dept. improvement; \$37,000, paving.

Tex., Plainview—Highway—Hale County sold \$300,000 bonds to Plainview National Bank, at 94.70 and accrued interest.

Tex., Tyler—School—City Comm., Lee Powell, City Mgr., sold \$231,000 bonds to Citizens National Bank, Tyler. 9-12

## Building and Loan Associations

Ky., Paducah—National Savings & Building Assn. of Paducah, capital \$1,000,000, opened; Rankin R. Kirkland, Pres.; Al Foreman, V.-P.

## New Financial Corporations

Fla., DeLand—Barnett National Bank of DeLand, capital \$100,000, opened; Frank Norris, Pres.; L. A. Perkins, V.-P. and Cashier. 10-3

Fla., Vero Beach—National Bank of Indian River County, capital \$25,000, plans organizing; Col. R. D. Carter, correspondent, Vero Beach.

Ga., Atlanta—Peachtree Road Branch of Fulton National Bank, opened with John Thompson, as Mgr. 10-24

La., Baton Rouge—Citizens Bank & Trust Co., Main St., capital \$50,000, organizing; Albert Ligon, V.-P., Raymond Bldg.

Mo., Kansas City—Associated Securities Co., \$25,000 capital, chartered; Paul F. Skinner, Kansas City; John W. Moore, Excelsior Springs.

Mo., Wellston—Lindell Investors, Inc., \$28,000 capital, chartered; C. R. and Josie M. Elsner.

N. C., Charlotte—Schuter, Green & Co., capital \$200,000, chartered; F. E. Schuter, F. B. and Janet H. Green.

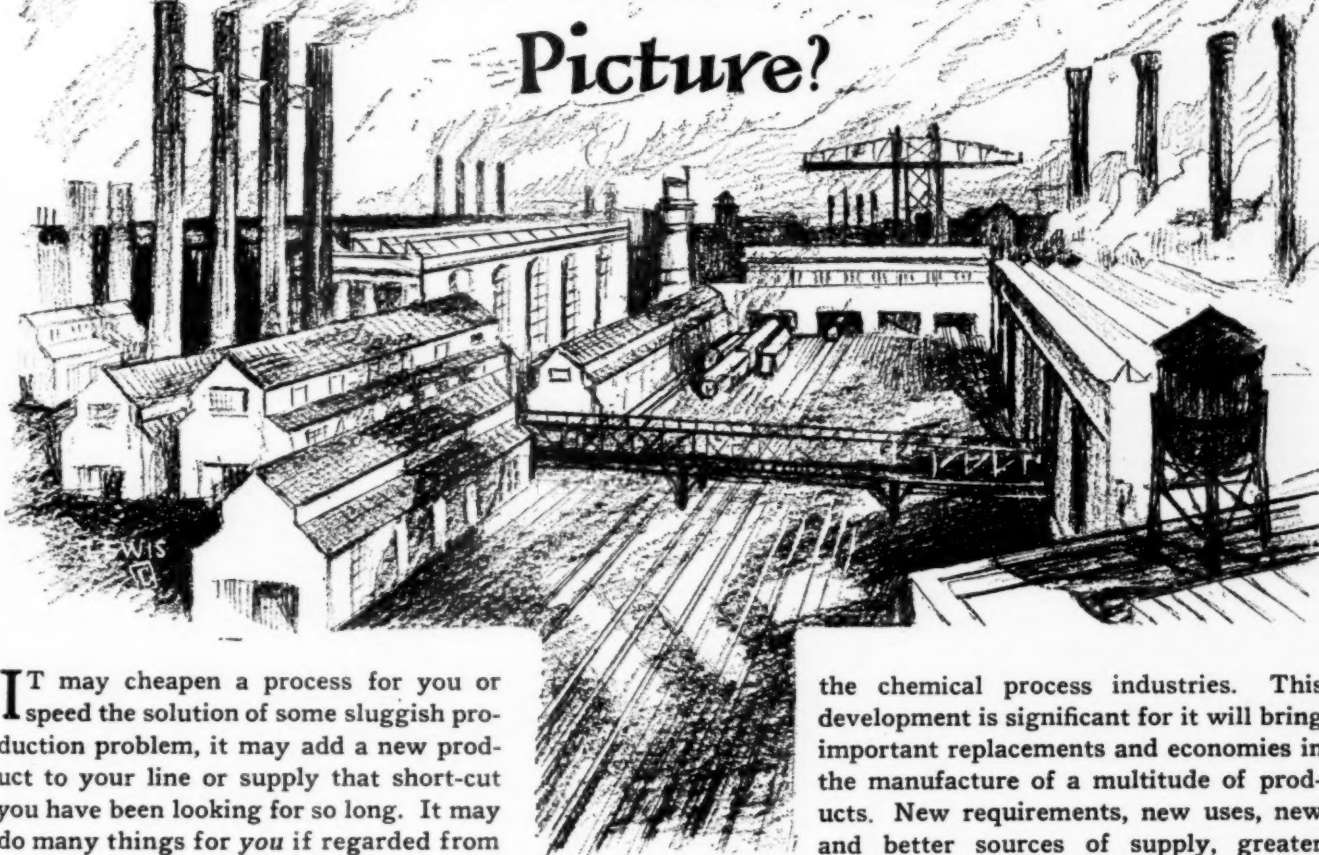
Tex., Houston—Southern General Investment Co., capital \$25,000, chartered; G. L. Noble, 5323 Cherokee St.

Tex., Levelland—First State Bank of Lev-

(Continued on page 86)



# Where Does METHANOL Fit Into This Picture?



**I**T may cheapen a process for you or speed the solution of some sluggish production problem, it may add a new product to your line or supply that short-cut you have been looking for so long. It may do many things for you if regarded from a fresh viewpoint—for new conditions are constantly creating new uses for Methanol.

Today it is the farsighted manufacturers who are considering this question—tomorrow or a year from now they may have important advantages because they early recognized today's trend. For Methanol (Synthetic Methyl Alcohol) is rapidly assuming a new importance in

the chemical process industries. This development is significant for it will bring important replacements and economies in the manufacture of a multitude of products. New requirements, new uses, new and better sources of supply, greater

speed, greater economy of time and materials, increased production are urgently demanded.

Methanol will play an important part in meeting these new requirements.

We are glad to advise and co-operate on all problems relating to the use of Methanol.

**METHANOL**  
**ANHYDROUS AMMONIA**  
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Formerly: LAZOTE, Inc.

## FINANCIAL NEWS

(Continued from page 84)

eland, capital \$20,000, chartered; C. E. Maedgen, W. A. Green, C. J. Young.

Tex., Menard—Home Finance Co., capital \$20,000, chartered; W. W. and W. M. Lewis, H. H. Wheelers.

Tex., Whitewright—Kimbell Corporation, capital \$100,000, chartered; Kay Kimbell, Coleman Carter, Jr., J. G. Blocker; loans.

Commercial State Bank, C. E. Cline, Pres., Frederick, Md., plans changing name to Commercial Bank of Maryland, and increasing capital \$310,000 to \$400,000.

Directorates of Atlanta and Lowry National Bank, Thomas K. Glenn, Pres., and of Fourth National Bank, Jno. K. Ottley, Pres., both Atlanta, Ga., voted to merge into First National Bank of Atlanta, Fourth National Bank Bldg., with \$5,400,000 capital and resources of over \$141,102,000; involving amalgamation of following subsidiaries: First Trust Co. of Georgia; Trusco Securities Co.; Trusco Investment Co.; subsidiaries of At-

lanta and Lowry National; Fourth National Associates, Fourth National Co., subsidiaries of Fourth National Bank; awaits approval of stockholders Nov. 20.

First National Bank, J. T. Campbell, Pres., Bradenton, Fla., plans increasing capital, \$120,000 to \$150,000.

First National Bank, T. P. Flinch, Pres., and Peoples Bank, T. L. Marsh, Pres., both Kenton, Tenn., plan consolidating as Kenton Banking Co.

Fourth and First National Bank, J. E. Caldwell, Pres., Nashville, Tenn., purchased Smith County Bank, J. C. Davis, Pres., Carthage, Tenn.

Paris Savings Bank, Clarence Evans, Pres., Paris, Mo., purchased Santa Fe Bank, W. D. Norman, Pres., Santa Fe.

Peoples State Bank of South Carolina, R. Goodwyn Rhett, Pres., Charleston, S. C., purchased National State Bank, W. Barwell, Pres., Columbia, S. C.; combined resources over \$23,000,000.

Peoples State Bank of South Carolina, R. Goodwyn Rhett, Pres., Charleston, S. C., purchased Woodside National Bank, Robt. L.

Woodside, Pres., Greenville, S. C.; Alester G. Furman, Greenville to be V.-P. and Ch. executive officer of Greenville bank.

Securities Management Co., 120 Broadway, News York City, plans consolidating two trust funds which it supervises, by organizing under Maryland laws, Broad St. Investing Co., with capital stock of 500,000 shares of common stock, without par value.

Union Trust Co., John N. Dennis, Pres., purchased National Bank of Baltimore, Jno. Schoenewolf, Pres., Baltimore, Md., at \$430 per share, with an alternative on an exchange basis of 1 share of National Bank of Baltimore stock for 5 shares of Union Trust Co. stock; considering increasing capital stock by 75,000 shares of stock at par value of \$10, subject to approval of stockholders. 10-24

William Murphey, Pres., Citizens & Southern National Bank, Atlanta, Ga., announces: Citizens & Southern Holding Co., owned by stockholders of Citizens & Southern National Bank, purchased Thomaston Banking Co., R. E. Hightower, Pres., Thomaston, Ga.; will operate as unit of Citizens and Southern; total resources close to \$100,000,000.

### Bank Accepts \$430 Per Share For Stock

Directors of the National Bank of Baltimore have voted to accept a bid of \$430 per share submitted by the Union Trust Company, Baltimore, for the purchase of the former in furtherance of plans for the consolidation of the two institutions. As an alternative, one share of the stock of the National Bank of Baltimore may be exchanged for five shares of the Union Trust Company. The consolidated institution will be operated as the Union Trust Company, John Schoenewolf, president of the National Bank of Baltimore, becoming chairman of the board of the enlarged bank and John M. Dennis, president of the Union Trust Company, remaining in that capacity. Howard E. Young, chairman of the executive committee of the Union Trust Company, will be chairman of the executive committee of the enlarged institution. There will be no change, it is said, in the personnel of the two banks, whose combined assets are estimated at \$66,000,000.

### Power Facilities for Texas Towns

The Central Power and Light Company, San Antonio, Tex., will provide electrical facilities in Harwood and Presidio, Texas, installing a General Electric new single phase 50 kva. standard

unit, 66,000 to 2300 volt substation and 2300 volt metering equipment at Harwood, on which work will be started within 30 days by company forces. An electric generating station will be enlarged at Presidio and materials to be used are being transferred from one of the company's other plants.

### BIG BANK MERGER FOR ATLANTA

Consolidated Resources of More Than \$141,000,000

Atlanta, Ga.—Directors of the Atlanta and Lowry National Bank and the Fourth National Bank have approved plans for the consolidation of the two institutions into the First National Bank of Atlanta, the latter to operate under the original charter of the old Atlanta National Bank issued in 1805, said to be the first and oldest national bank charter in the cotton states. Stockholders' meetings will be held November 20, at which time it is expected the consolidation will be ratified. The new bank will have capital, surplus and undivided profits of \$12,602,836, deposits of more than \$100,000,000 and resources estimated at more than \$141,000,000. Capital stock will consist of \$540,000 shares of \$10 par value. The main offices of the enlarged bank will be located in the Fourth National Building at Marietta and Peach-

tree streets, to which a \$750,000 addition will be erected and for which the Barge-Thompson Company, Atlanta, was recently awarded contract. Pringle & Smith are the architects for the addition and W. C. Spiker & Co., structural engineers, both of Atlanta.

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Gives counts and prices on over 8,000 different lines of business. No matter what your business, in this book you will find the number of your prospective customers listed. Valuable information is also given as to how you can use the mails to secure orders and inquiries for your products or services.

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Public officials are invited to avail themselves of our facilities for preparation of legal details.  
Your inquiry receives prompt attention.  
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**We Buy Bonds**  
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WRITE  
**THE PROVIDENT SAVINGS BANK & TRUST CO.**  
CINCINNATI OHIO



## HELPFULNESS

is the motto of this Bank.

Let us tell you about it.

### BALTIMORE COMMERCIAL BANK

GWYNN CROWTHER, President

26 South Street, Baltimore, Md.

Capital and Surplus \$1,350,000.00 Member Federal Reserve System

## Corporate Financing Arranged

### Mergers and Reorganizations Effectuated

With connections seeking extensive outlets in constructive financing in the South, this announcement of facilities now available to Southern business houses embraces a most cordial invitation to investigate the solutions offered in response to capital needs. Capital furnished for both new and old enterprises.

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### THE CENTURY TRUST COMPANY of Baltimore

Capital \$1,000,000 Surplus \$1,700,000

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First National Bank Building CHICAGO

We purchase SCHOOL, COUNTY and MUNICIPAL BONDS. Southern Municipal Bonds a Specialty.

Write us if you have bonds for sale.

## HAVE YOU BONDS FOR SALE?

WE BUY ALL CLASSES OF MUNICIPAL BONDS,  
INCLUDING CITY, COUNTY, SCHOOL,  
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39 SOUTH LA SALLE ST., CHICAGO

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We Underwrite MUNICIPAL BONDS in States of  
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### THE OSCAR T. SMITH & SON CO.

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### BANK AND COMMERCIAL STATIONERS

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## We are specialists

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plants and removal of units to  
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# PANELOUVRE

MODEL D-4

## again REDUCES construction COSTS



**SPECIAL** metal molding now permits installation of PANELOUVRE directly in thin center panel of steel or wood doors, for either new or existing construction, at less cost than if Panelouvre extended from stile to stile, with false cross rail directly underneath. Thus cross ventilation can be provided in most economical manner.

Double molding feature found only in PANELOUVRE, greatly lowers contractors installation charges.

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# SUPREME



## MOTOR OIL

THIS entirely different two-base Motor Oil is just what you have been wanting—it is a tough, heat resisting, able-bodied oil, designed for the lubrication of the modern motor—it is made by combining the best properties of both the paraffine and naphthene base crude oils—it possesses all of the good and none of the bad features of single base oils.

*At the Sign of the Orange Disc*

**GULF REFINING CO.**

# MENTE & CO., INC. BAGS

I. T. RHEA, Pres.

NEW ORLEANS SAVANNAH

A B C By-Product Foundry Coke  
A B C By-Product Gas Making Coke  
A B C By-Product Domestic Coke  
LOWEST IN ASH      LOWEST IN SULPHUR  
"Alabama's Best Coke"  
HAMMOND IRON CO., Birmingham, Ala.

WE are the sole and only manufacturers of the machine known under the trade name and trade mark

## "CEMENT GUN"

Let us aid you by giving you full information how your new construction or repair is made with this machine and its product

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*Experience Has Taught Us All Best Methods*

**CEMENT GUN CO., INC., Allentown, Penna.**

IF YOU WANT TO GET ~  
*Southern Business  
Advertise in the*  
**MANUFACTURERS RECORD**



**Mississippi Valley Barge Line**

St. Louis, Mo.—The Mississippi Valley Barge Line Company, recently incorporated with a capital stock of \$3,000,000 by St. Louis and New York interests to operate a barge service on the Mississippi and Ohio rivers, will operate four 2000-horsepower towboats and 50 barges between Cincinnati and New Orleans, the service beginning about next June. The towboats will be steam-driven, two of them to be of the uniflow engine type and two of the turbo-electric drive with screw propellers in tunnels, while the barges will be of 300 tons capacity with pointed bows and sterns, designed to fit into fleet formation, thus reducing friction of bow and stern and making possible an express service. The company will also operate two caterpillar tractor shallow water towboats and seven shallow water barges on the Cumberland River from Nashville, Tenn., to Paducah, Ky., this service to supplement that on the Mississippi and Ohio

rivers. Carl J. Baer, of this city, is vice-president of the Mississippi Valley Barge Line Company.

**\$1,000,000 Church Contract**

Winston-Salem, N. C.—General contract for the erection of a new building here for the Centenary-West End Methodist Episcopal Church, has been awarded to the James Baird Company, Inc., of New York and Winston-Salem, at approximately \$1,000,000. The building will be of steel frame construction, with reinforced concrete foundation and slate and composition roof. It will provide an auditorium to seat 1600, Sunday school space to accommodate 2000 and will be equipped with two pipe organs. Furnishings and equipment are expected to cost about \$100,000. Mayers, Murray and Phillip and Bertram Goodhue Associates, both of New York, are the architects, and Wiley & Wilson, Lynchburg, Va., heating and ventilating engineers. A parsonage will be erected after plans by Northup & O'Brien, Winston-Salem.

**Tariff Protection for Manganese Would Add Millions to Nation's Wealth**

Referring to the MANUFACTURERS RECORD's fight for an adequate protective tariff on manganese, Walter H. Denison, Cushman, Ark., who has been developing, producing and shipping manganese for 42 years, makes the following comment:

"The tariff on manganese ore fosters an important growing American industry furnishing employment and additional income to American workmen, many of whom would not otherwise be employed. An adequate protective tariff will save from total loss over \$20,000,000 invested in manganese properties throughout the nation and it will increase taxable value and tax revenue in 34 states which would be lost with manganese on the 'free' list. Such a tariff would contribute to the general prosperity of the nation in the way of increased freight receipts and increased purchasing power. Arkansas has doubled its manganese output since 1927 under the present low manganese tariff, and has been making new discoveries without exhausting the old."



# PROPOSALS

BOND ISSUES

BUILDINGS

PAVING

GOOD ROADS



Bids close November 12, 1929.

SEALED BIDS, in triplicate, subject to the conditions contained herein, will be received by the U. S. Veterans' Bureau, Room 764 Arlington Building, Washington, D. C., until 11 A. M. November 12, 1929, and then publicly opened, for furnishing all labor and materials and performing all work required at U. S. VETERANS' HOSPITAL, EXCELSIOR SPRINGS, MISSOURI, for CONSTRUCTING Buildings and Utilities, including roads, walks and drainage; also wrecking of present frame M. O. C. Residence. This work will include excavating, reinforced concrete construction, hollow tile, brick work, cast stone, marble work, floor and wall tile, linoleum floors, iron work, flag pole, steel sash, steel stairs with slate treads, slate, metal and built-up roofing, roof ventilators, skylights, metal lathing, plastering, carpentry, insect screens, window shades, metal weather strips, painting, glazing, hardware, plumbing, additional boiler plant equipment, heating, electrical work, electric elevator, electric dumbwaiter, refrigerating plant, zeolite water softening system, steel water tank, and outside sewer, water, steam and electric distribution systems. SEPARATE BIDS will be received for General Construction, Electric Elevator and Electric Dumbwaiter, Refrigerating Plant, Zeolite Water Softening System and Steel Water Tank, all as set forth on bid form. Bids will be considered only from individuals, firms or corporations possessing satisfactory financial and technical ability, equipment and organization to insure speedy completion of the contract, and in making awards the records of bidders for expedition and satisfactory performance on contracts of similar character and magnitude will be carefully considered. At the discretion of the Director, drawings and specifications may be obtained upon application to the Construction Division, Room 764 Arlington Building, Washington, D. C. Deposit with application of a check or postal money order for \$60.00, payable to the TREASURER OF THE UNITED STATES, is required as security for safe return of the drawings and specifications within ten days after date of opening bids. FRANK T. HINES, Director. October 10, 1929.

**GENERAL INFORMATION****About Proposal Advertising in Manufacturers Record**

PUBLICATION DAY: Thursday.

FORMS CLOSE: 10 A. M. Tuesday.

When too late to send copy by regular mail to reach us by 10 A. M. Tuesday, forward by night letter or air mail when possible.

**THE DAILY BULLETIN OF THE MANUFACTURERS RECORD:**

Published every business day, gives information about the industrial, commercial and financial activities of the South and Southwest.

The Daily Bulletin can be used to advantage when copy cannot reach us in time for publication in the Manufacturers Record before bids are to be opened or when daily insertions are necessary to meet legal requirements.

The rate is the same for both publications—35 cents a line each insertion.

Bids close November 21, 1929.

War Department, office Constructing Quartermaster, Fort Bragg, N. C. Sealed proposals in triplicate will be received until 10 A. M. November 21, 1929, and then publicly opened, for the construction and completion of Four (4) Field Officers' and Ten (10) Company Officers' quarters at Fort Bragg, North Carolina. \$25.00 deposit, certified check, payable to Treasurer of United States, required for drawings, etc. Further information on request.

Bids close November 25, 1929.

TREASURY DEPARTMENT, office of the Supervising Architect, Washington, D. C., October 21, 1929.—SEALED BIDS will be opened in this office at 3 P. M. November

25, 1929, for remodeling and enlarging the United States Post Office at Columbia, Tenn. Drawings and specifications may be obtained from the custodian of the building or at this office, in the discretion of the Supervising Architect. JAS. A. WETMORE, Acting Supervising Architect.

Bids close November 2, 1929.

**Public Sale of "Refunding and Improvement Notes of Lincoln County"**

Fayetteville, Tenn.

By virtue of the authority of a resolution of the County Court of Lincoln County, Tennessee, adopted at its October term, 1929, we, the undersigned, will attend at the office of the Clerk of the County Court of Lincoln County, Fayetteville, Tennessee, ON SATURDAY, NOVEMBER 2nd, 1929, at about 11 o'clock A. M. and offer for sale and sell for cash on sealed bids \$40,000.00 of the (5½%) coupon "Refunding and Improvement Notes of Lincoln County, Tennessee," which notes are dated November First, 1929, and mature and become payable as follows:

|           |   |
|-----------|---|
| \$2000.00 | one year after date;                        |
| \$3000.00 | two years after date;                       |
| \$4000.00 | three years after date;                     |
| \$4000.00 | four years after date;                      |
| \$4000.00 | thereof five years after date;              |
| \$4000.00 | thereof six years after date;               |
| \$4000.00 | thereof seven years after date;             |
| \$5000.00 | thereof eight years after date;             |
| \$5000.00 | thereof nine years after date;              |
| \$5000.00 | the remainder thereof ten years after date. |

Said notes are in the denomination of \$1000.00 each. Interest is evidenced by coupons, payable semi-annually, at the rate of 5½%.

FOR FURTHER INFORMATION see or write the undersigned.

A certified check for \$1000.00 is required to be deposited with each bid. This October 16th, 1929.

A. E. SIMS, Judge.  
BOONE MOORE, Clerk.

Bids close November 19, 1929.

**\$225,000 5% Bonds**

Laredo, Texas.

Sealed bids for the purchase of \$225,000.00 City of Laredo, Texas, Independent School District Bonds, five per cent interest, payable semi-annually, due serially over a period of forty years, with redemption option after twenty years, will be received and opened at regular City Council meeting, Tuesday, November 19, 1929, at 7.30 o'clock P. M. All bids must be accompanied by Cashier's check or certified check for \$5000.00, payable to J. A. Ortiz, City Treasurer, which will be forfeited as liquidated damages if successful bidder fails to comply with purchase. Particulars may be obtained from A. R. Garcia, City Secretary. City reserves right to reject any and all bids. Bonds dated November 1, 1929.

Witness my hand October 19, 1929.  
ALBERT MARTIN, Mayor,  
City of Laredo, Texas.

Bids close November 7, 1929.

**Virginia Highway Work**

DEPARTMENT OF HIGHWAYS

Richmond, Va.

The Commission will receive bids on:

| Project   | Length   | Type   |
|-----------|----------|--|
| F528B1234 | 3 40 Ft. | Reinf. Conc. Beam and                                    |
|           | 1 60 Ft. | Steel Truss Spans  |
| F586B1    | 1 75 Ft. | Steel Truss Span   |
| S586C     | 2 Mi.    | (Concrete) (Sheet Asphalt and Alternate Wearing Courses) |
| F105B     | 1 75 Ft. | Steel Truss Span   |

Details obtainable on request.

Bids close December 10, 1929.

**Notice To Contractors**

Postponement of Opening Bids: Previously advertised to be opened November 5, 1929.

Baton Rouge, La.

Notice is hereby given by the Louisiana Highway Commission, Louisiana National Bank Building, Baton Rouge, Louisiana, that the date for receiving bids for construction of the projects listed below has been postponed from 11 A. M. November 5, 1929, to

11 A. M. Tuesday, December 10, 1929.

PROJECT 5251, MANY-FLORIEN HIGHWAY, Sabine Parish, Route No. 42. Length 8.1 miles. Concrete pavement.

PROJECT 1151, OBERLIN-KINDER HIGHWAY, Allen Parish, Route No. 24. Length 7.0 miles. Concrete Pavement.

HARRY B. HENDERLITE,

State Highway Engineer.

O. K. ALLEN, Chairman,

Louisiana Highway Commission.

Bids close November 12, 1929.

**Bridge Superstructures**

DEPARTMENT OF PUBLIC WORKS

STATE OF MARYLAND

STATE ROADS COMMISSION

**NOTICE TO CONTRACTORS**

Baltimore, Md.

SEALED PROPOSALS for Fabricating and Erecting Bridge Superstructure as follows:

Anne Arundel County, Cont. AA-49—Fabrication and erection of all structural steel necessary for the superstructure of a triple span through truss bridge located on the Old Annapolis Road between Westport and Glenburnie over the Patapsco River.

Wicomico County, Cont. WI-50-A—Fabrication and erection of all structural steel necessary for the superstructure of the proposed steel girder bridge over the tracks of the N. Y. P. & N. Railroad Company at North Division Street, Salisbury.

**REPAIRING A BRIDGE AS FOLLOWS:**

Prince George's County, Cont. P-91—Repairs to existing 31 ft. 0 in. span reinforced concrete girder bridge on the road from the D. C. Line to Camp Springs over Henson Creek.

will be received by the State Roads Commission at its offices, Federal Reserve Bank Building, Calvert and Lexington Streets, Baltimore, Maryland, until 12 M. on the 12th day of November, 1929, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form which, with specifications and plans, will be furnished by the Commission upon application and cash payment of \$1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred (\$500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond and comply with the Acts of the General Assembly of Maryland respecting contracts.

The Commission reserves the right to reject any and all bids.

BY ORDER of the State Roads Commission this 25th day of October, 1929.

G. CLINTON UHL, Chairman.

L. H. STEUART, Secretary.

Bids close November 25, 1929.

**Jail Alterations and Additions**

Bonifay, Fla.

Sealed proposals endorsed "Proposals for alterations and additions to Holmes County Jail, Bonifay, Florida," addressed to the Board of County Commissioners of said county, will be received at the office of J. W. Vanlandingham, Clerk of the Circuit Court, Bonifay, Florida, until ten o'clock A. M. on Monday, November 25, 1929.

Plans and specifications of the above work may be obtained at the office of W. D. Willis, Architect, 517 Blount Building, Pensacola, Florida, on deposit of \$15.00 for each set of plans.

Each bid must be accompanied by a certified check for \$750.00, made payable to the Board of County Commissioners of said county.

The successful bidder will be required to give bond for the faithful performance of his contract in a sum equal to fifty per cent of the amount of his contract price in a surety company authorized to do business in the State of Florida in full compliance with the Statutes of the State of Florida.

The Board of County Commissioners reserves the right to reject any and all bids or parts thereof.

BOARD OF COUNTY COMMISSIONERS  
OF HOLMES COUNTY, FLORIDA.

By J. J. WILLIAMS, Chairman.

Attest:

J. W. VANLANDINGHAM, Clerk.

Bids close November 5, 1929.

**Diesel Engine Generating Unit**

Tallahassee, Fla.

Sealed proposals will be received by the Board of Commissioners of State Institutions, Tallahassee, Florida, until 10 A. M. Tuesday, November 5th, 1929, for:

One Diesel Oil Engine of approximately 600 Brake horsepower, with direct connected generator, having a speed of 225 RPM, generating at 2300 volts, three phase, sixty cycles, and exciter mounted on the same shaft; unit to be complete with fuel tanks, auxiliary apparatus and piping, delivered and erected State Farm, Raiford, Florida, without switchboard.

Specifications can be secured by writing or wiring the Board of Commissioners of State Institutions, Tallahassee, Florida, or C. S. Hammatt, State Engineer, 208-10 E. Forsyth Street, Jacksonville, Florida.

# CLASSIFIED OPPORTUNITIES

## MINERAL AND TIMBER LANDS, WATER POWER, MISCELLANEOUS PROPERTIES

FOR SALE—10,000 Acres Oil Land in Louisiana. Leased for six years at \$1.00 per acre yearly. Payable yearly in advance. Price \$60,000.00.  
J. C. HARRISON & CO., Clarksville, Ark.

FOR SALE—Gold prospect. Wanted—Capitalist to go down on vein where thousands of dollars placer gold washed out.  
W. A. OWENBY, Mineral Bluff, Ga.

NEW MEXICO—I offer from 40 to 4000 acres, new 5 year oil and gas leases in Quay County, New Mexico, at 33 cents per acre; title perfect; annual rentals only 5 cents per acre. For maps and details address Frank Strickland, Sapulpa, Oklahoma.

FOR SALE—Several tracts of mineral rights. Have one tract of 16,000 acres, another of 715 acres, which have been core-drilled and open pitted. Our geological report gives 240,000,000 tons of Rock Asphalt on the large tract and 4,000,000 tons on the small tract. For complete data address W. P. HARLEY, Bowling Green, Ky.

## Rates, Terms and Conditions

RATES: 30 cents a line each insertion. Minimum space accepted, four lines. In estimating the cost allow six or seven words of ordinary length to a line. When the advertisement contains a number of long words proper allowance should be made.

**Rates for Special Contract:**

100 lines 28c a line  
300 lines 26c a line  
500 lines or more 25c a line

TERMS: For transient advertising cash with order; check, postoffice or express money order or stamps accepted. On special contract advertising bills are rendered monthly, covering space used each month, payable within ten days.

CONDITIONS: No patent medicine, oil or mining stock advertisements or questionable or undesirable advertisements will be accepted. The assistance of our readers in excluding undesirable advertisements is requested. No display type used.

## MINERAL AND TIMBER LANDS, WATER POWER, MISCELLANEOUS PROPERTIES

BENTONITE, FULLER'S EARTH, BAUXITE, JUG and POTTERY CLAYS, FIRE CLAY, BRICK and TILE CLAYS and GLASS SAND

are to be found in the territory served by the Gulf, Mobile & Northern Railroad. Through this section of Mississippi will run the new \$35,000,000 natural gas line which is being constructed from the Monroe and Richland natural gas fields of Louisiana. White and colored labor; water and high tension power line available.

Tax abatement on new industries for five years.

Opportunity for new operations under very favorable conditions.

For full facts and information write HENRY MACE PAYNE, Geologist, Gulf, Mobile and Northern R. R. 841 Munsey Building, Washington, D. C.

**WATER POWER SITE**

FOR SALE—Shut-in or water-power site below the Great Cumberland Falls of the Cumberland River in Kentucky.

J. C. WILLIAMS, Etowah, Tenn.



## MINERAL AND TIMBER LANDS, WATER POWER, MISCELLANEOUS PROPERTIES

### CLAY PRODUCTS

FOR SALE—Major clay products plant site, on the Gulf Coast, near New Orleans. Ample, tested, imperishable mineral materials, for making good red common brick, face brick, tile, piping and building wares. Favorable transportation facilities give territory control. Get Booklet.

OWNER, Box 24, Warrior, Ala.

## FARM, FRUIT AND TRUCK LANDS

### GEORGIA

WANTED—CASH OFFER for 3863-acre, well-improved farm that Loan Company has appraised at \$135,820.00, without cotton gin machinery. Two-story, eleven-room main dwelling, superintendent's six-room dwelling, plenty tenant houses; operate eighty single farms. Turnpike road and electric power line through and railroad station on place. Seven miles county seat. Ogeechee River southern boundary. Would also make ideal stock farm or game preserve.

T. Z. DANIEL, Millen, Ga.

### OKLAHOMA

#### NORTHEASTERN OKLAHOMA IN THE OZARKS

Unimproved fruit, poultry, dairy and livestock lands—350 acres \$3.75 per acre. 270 acres on Highway \$4 per acre, 410 acres on Highway, three Springs, \$6.50 per acre.

70 acres improved \$1200; 30 improved \$1000 on Highway, 160 acres livestock farm, 45 in Red Clover, only \$2500.

1600 acres forclosed black prairie lands in tracts to suit and long time payments \$35 to \$50 per acre. Fine water, climate and soil.

W. B. WOLF, Jay, Oklahoma.

### SOUTH CAROLINA

FOR SALE OR RENT—200 acres of good level land about two miles south of Ridge Spring, near paved highway. Fine asparagus land; a nice young pecan orchard. Reasonable.

J. L. BLACK, Ridge Spring, S. C.

### ISLAND, LAND AND TIMBER

For Sale—Four thousand acre island, twenty-one hundred high, one thousand cleared, fine truck land. Island abounds with deer, quail and other game; duck pond, high bluffs, several beautiful old homesites. Located on South Carolina coast; also other salt-water frontage, cut-over lands and timber. J. W. BARNES, Mendel Building, Savannah, Ga.

### TENNESSEE

14,500 ACRES. Special price \$110,000. Positively the GREATEST BARGAIN IN EAST TENNESSEE. Good title. Situated on Tenn. Cent. R. R. and on Alvin C. York Highway from Louisville to Chattanooga. One mile from the fast growing town of Crossville, Tenn. Underlaid with Nelson and Sewanee seams of coal, also a real hay, grass and stock proposition. Well watered; cattle and sheep grow 10 months in the year on native grasses. Raise potatoes; average yield, 150 bushels per acre, netted \$1.56 per bushel this year. Can be subdivided and sold in small farms, having frontage on hard surfaced highway. Must be sold to close estates. Warranty deed. Terms one-third cash, balance 1 and 2 years. Other small tracts. E. H. BENOIST, 1006 Title Guaranty Building, St. Louis, Mo.

### VIRGINIA

VIRGINIA COUNTRY ESTATES—Write for new illustrated free catalogue of handsome Virginia Country places, hunting preserves and stock and grain farms. GEO. V. VENABLE & CO., Lynchburg, Va.

## GAME PRESERVE

SPORTSMEN'S OPPORTUNITY—3500 acres, 200 acres cleared, rich land, small fresh water lakes, half mile ocean front, boat landing, plenty wild game, best fishing on N. C. coast, large mansion, plenty other buildings; Coastal highway; A. C. L. R. R. through property. Price low to settle estate. Particulars, address Route No. 1, Box 118-C, Wilmington, N. C.

## SOUTHERN ESTATE

CHARLOTTESVILLE, VA., near Farmington Country Club. FOR SALE—A wonderful homesite, on the Jefferson Highway, just west of the University of Virginia. 100 acres, embracing a beautiful hill, from the top of which is a marvelous panoramic view of the Blue Ridge Mountains and the picturesquely rolling Piedmont country. City water and electricity. The surroundings are ideal and include some of the most distinguished country estates of Albemarle County. This property was formerly owned by Chief Justice Marshall. E. W. MOSS, Owner, Charlottesville, Va.

## REAL ESTATE—MISCELLANEOUS

OUR RENTAL DEPARTMENT has some real furnished houses for season's rent. Wire or write your reservation. P. JOHN HART REALTY & INVESTMENT CORP., Fort Myers, Florida.

## BUSINESS AND INVESTMENT PROPERTIES

A REAL INVESTMENT—Lot with 228 feet on main business street; has double street frontage, with best corner in city; has small business rooms, 5 of which have been rented continuously. For quick sale \$16,000.00. P. JOHN HART REALTY & INVESTMENT CORP., Fort Myers, Florida.

WE HAVE two excellent pieces of income property, both new, fireproof, modern and fully equipped, fully rented, each bringing \$300.00 per month, small overhead. Climate and living conditions not excelled anywhere. Have other business requiring capital and attention; excellent proposition for widow or elderly couple. Will sacrifice. Sell one or both; might accept some trade. Will stand closest investigation. BOX 817, PENSACOLA, FLORIDA.

## BUSINESS OPPORTUNITIES

WE HAVE CLIENT who wants someone to build rooming house; will lease or buy if on proper terms. P. JOHN HART REALTY & INVESTMENT CORP., Fort Myers, Fla.

LONG TERM LOANS, large amounts, made on industrial, mercantile, sawmill properties. THOS. W. GILMER, Attorney, Bay Minette, Alabama.

PARTIES QUALIFYING can join a Washington, D. C., Inc. Manufacturing Co. as a State director without any cash advance for director service stock interest. No. 8020, care Manufacturers Record.

FOR SALE—Agricultural lime business. Large deposit and fully equipped plant on railroad in rich agricultural section. In successful operation over ten years. Going concern, with established trade over large territory. Nice business to handle. For details address No. 8009, care Manufacturers Record, Baltimore, Md.

A MAN wanting to retire from a money-making machinery and hardware business doing about \$20,000 per month offers someone a real opportunity to step into a well-organized and growing business. Will require \$25,000 to \$50,000 to handle it. Location, Central Georgia. This ad. will not appear again, so act at once. Address No. 8017, care Manufacturers Record, Baltimore, Md.

### CHARLOTTE, N. C.

Due to owner's other interests, necessitating removal immediately to another section of the country, rare opportunity for quick purchaser to secure going business. Established 1925 and has paid handsome profits consistently since that time. Audit of July 31st, 1929, shows conservative net worth of \$21,638.01 actual assets. No valuation placed on prestige, good will or leasehold. We invite inquiry from interested parties and welcome rigid investigation. Phone, write or wire Hal Carter, Inc., Brokers, Commercial Leases, Appraisals, Industrial Sites, Johnston Bldg., Charlotte, N. C.

## BUSINESS OPPORTUNITIES

WRITE FOR OUR BULLETIN NO. 1—Listing machines and auxiliary equipment for making thin shell hollow tile by heating poured (cast) cement at average cost of 4 cents for standard fireproofing sizes. THE PAULY MANUFACTURING CO., 1333 K Northwest, Washington, D. C.

## FACTORY FOR SALE OR LEASE

A complete furniture factory, with or without machinery. Will lease half to right party. Buildings are sprinkled, heated, lighted and have good engine and boiler, also outside electric power.

SOUTHERN DESK COMPANY, Hickory, N. C.

## WATER WORKS AND FRANCHISE FOR SALE

PUBLIC SALE OF VALUABLE PROPERTY  
NOVEMBER 20th, at 12 O'CLOCK  
Murfreesboro, N. C.  
FOR CASH

City Water Works, including Franchise, ice plant and 10-room modern residence, now owned by Geo. H. Campbell, default having been made in his payments under Deed of Trust.

And further described as follows:  
Water Works consist of pipe lines on all the principal streets in Murfreesboro, N. C. 15 Standard fire hydrants installed on pipe lines.

Exclusive Franchise for water system that that does not expire until February 3rd, 1975.

12,000 gallon elevated tank, 83 ft. high.  
22,000 gallon concrete reservoir.  
Artesian well supplies water; water is as good as any in N. C.

Water system installed new 5 years ago. Income of water system \$4700.00 annually.

Town is on State and National Highway between Norfolk, Va., and Durham, N. C.

Town is gradually growing.  
Last census give us around 600; we now have about 1200.

Good schools and churches. We have Chowan College, Grade A, here.

A healthy town.  
6-ton Frick ice plant erected new 6 years ago; this is under same roof of town water supply.

Fairbanks-Morse crude oil engine used for power.

Sell output of ice in summer months at \$1.50 per block of 300 lbs., delivered.

Building wood frame, galvanized iron siding and top, cement floor; size of building approximately 70'x70'.

Annual income from ice plant around \$9500.00. Plant supplies several nearby towns.

An up-to-date modern 10-room residence, with hot-water heat, located near plant.

4-room cottage at plant.

If you are looking for an opportunity to invest in something that now gives a fair return and has a good future attend this sale ready to buy, because it will positively be sold on above date.

The water system, with exclusive Franchise, is worth more than you will pay for the whole property.

Come and see the property for yourself. Any further information will be gladly furnished. If desired will help you finance sale.

J. A. CAMPBELL,  
Murfreesboro, N. C.

## INDUSTRIAL SURVEYS

ENGINEERING REPORTS on resources of cities and towns. Recommendations for industrial development and zoning made by specialists in locating industries.

TECHNICAL SERVICE CO.,  
Woolworth Building New York City

## DEVELOPING AND ENGINEERING

### ORGANIZING—DEVELOPING—ENGINEERING

Engineering firm, widely experienced in investigating, organizing, developing, designing and supervising construction, solicit correspondence regarding development or extension of meritorious projects and existing industries, power plants and utilities. Address No. 8016, care Manufacturers Record.

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**FOR SALE**  
Iron and Brass Foundry. Live town of 7000. No competition. Doing good business but must sell on account of illness. Cash or terms. A bargain for someone. Address P. O. BOX 217, CLOQUET, MICH.

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Strictly modern one-story Manufacturing Plant at Kokomo, Indiana; 200,000 sq. ft. floor space; all daylight; sprinklered; track. Beautiful administration building. Wonderful buy at unbelievably low price. Get particulars quick.  
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—Located in heart of Carolinas' textile industries. All kinds finished goods obtainable. Bleaching and finishing plant next door. Forty thousand square feet floor space, sprinkler system, steam heat, side track, low insurance rates, low taxes. Address J. W. ANDERSON, Rock Hill, S. C.

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For Sale  
8000 SPINDLES  
GOOD WATER POWER  
Address  
**F. C. ABBOTT & COMPANY,**  
201 Johnston Building, Charlotte, N. C.

**PLATE AND STRUCTURAL STEEL PLANT FOR SALE**  
Located at Portsmouth, Ohio, on Ohio River; population of city 65,000. Good location for live man; 1 1/4 acres land; building 52'x112'. Trolley cranes, private R. R. switch for (7) cars. Plant in running order. (2) large Punches, (1) small Punch. Plate Rolls. Air Compressor. Hammers and reamers and all small tools. Steam power or motor; electricity for light and welding. Will sell for half cash, balance (6) yearly payments. Address owner.  
**H. H. HOSSMAN,**  
Portsmouth, Ohio.

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## PATENT ATTORNEYS

**EDWARD C. SASNETT,** Attorney at Law and a former Principal Examiner in the United States Patent Office, 550 McGill Building, Washington, D. C.

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**BUSINESS MAN** of varied successful sales and management experience north and south wants a connection in the South; E. Tenn., S. W. Va. or Florida preferred. Best qualified for lumber, building material or millwork. M. C. B. certificate. Now employed. Also has practical knowledge of automotive, agricultural, mill and office equipment, checking of inventories, financial statements and operation details. Address No. 8019, care of Manufacturers Record, Baltimore.

## SITUATIONS WANTED

**CIVIL ENGINEER** (Licensed), 15 years' experience supervising construction all kinds of engineering and architectural structures. Also surveys of all kinds and land development. Available Nov. 15th. Moderate salary. Any location. **L. E. F.,** Box 2103, Winston-Salem, N. C.

## MEN WANTED

**IF YOU ARE OPEN** to overtures for new connection and qualified for a salary between \$2500 and \$25,000, your response to this announcement is invited. The undersigned provides a thoroughly organized service, of recognized standards and reputation, through which preliminaries are negotiated confidentially for positions of the caliber indicated. The procedure is individualized to each client's personal requirements, your identity covered and present position protected. Established nineteen years. Send only name and address for details.  
**R. W. BIXBY, INC.,**  
103 Downtown Bldg. Buffalo, New York.

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**FOR SALE**—One hundred thousand gallon steel reservoir, electric jappanning oven, woodworking machinery, exhaust fans, dry kilns. **J. W. ANDERSON,** Rock Hill, S. C.

## LUMBER

**FOR SALE**  
Second-Hand Pine Lumber, Sound and Dry  
300,000 feet 2x 4x8' to 14' long  
1,000,000 feet 2x 6x8' to 16' long  
55,000 feet 2x 8x8' to 24' long  
500,000 feet 2x10x8' to 18' long  
75,000 feet 2x12x8' to 24' long  
50,000 feet 1x 6x4' to 12' long  
Also limited amount of same sizes in shorter lengths—4 to 6'. Write for prices.  
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The Manufacturers Record has an opening for traveling subscription salesmen. Previous experience in this line of work is not essential but a record of successful sales work and general business experience is desirable. The men we want must be of the highest character and integrity, of good education (college men preferred) and prepared to travel. Applicants are requested to write giving age, business experience, education and the names of business and character references. A photograph or snap-shot should be included.

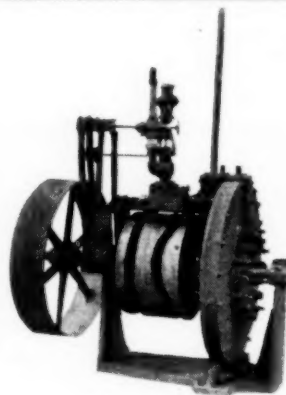
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Tell our readers about it through  
**THE RESALE DEPARTMENT**  
it may just suit the needs of someone.

Ask for rates

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### FOR SALE Improved Reversible Rotary Steam Engine

Can be used as a pump or compressor. The cylinder illustrated is 36 inches in diameter and 2 inches deep. The rotor or piston is 20 inches in diameter and 2 inches thick. The two valves are handled with a cam and the cylinder has metal packing rings, making it steam, water and air tight. The pump can be made from one foot to 10 or 12 feet in diameter. For further particulars write to

**C. R. Reid, Heidelberg, Miss.**

### RAMP GARAGE OPPORTUNITY IN MOBILE

An opportunity for anyone interested in building and operating a garage in a city that needs a modern garage. Lot suitable for large ramp type garage. Only two short blocks from two recently completed large office buildings in the business and hotel section of the city. A corner lot on two side streets; of short and easy access to main traffic artery. There are no competing garages in same neighborhood. Owners will take 50% of price of lot in stock of the garage.  
**P. O. Box 393**  
**Mobile, Alabama**